

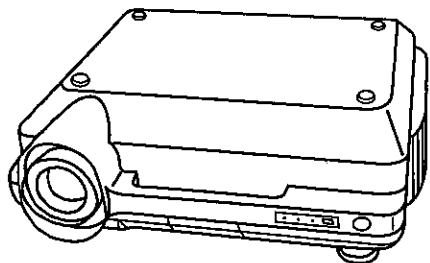
SHARP SERVICE MANUAL

SERVICE-ANLEITUNG

维修手册

S36F2XG3900E/

SECAM/PAL/NTSC SYSTEM
LCD PROJECTOR
LCD PROJEKTOR
液晶投影机



MODELS
MODELLE
型号

XG-3900E/EB

In the interests of user-safety (Required by safety regulations in some countries) the set should be re-stored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzersicherheit (erforderliche Sicherheitsregeln in einigen Ländern) muß das Gerät in seinen Originalzustand gebracht werden. Außerdem dürfen für die spezifizierten Bauteile nur identische Teile verwendet werden.

为了用户安全起见(根据一些国家的安全规程的需要), 应将液晶投影机保持于最初的状态, 而且只能使用与指定物相同的部件。

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Specifications

Product Type		LCD Projector
Model		XG-3900E / E
System		PAL/SECAM/NTSC 3.58/NTSC 4.43
Display method		LCD panels × 3, RGB optical shutter method
LCD panels	Panel size	3"(4.5(H) × 6.2(W) cm)
	Display method	Translucent TN liquid crystal panels
	Drive method	TFT (Thin Film Transistor) Active Matrix panels
	No. of pixels	309,120 dots × 3 panels
Lens		1-1.6 zoom lens, F3.5-4.4, f=100-160 mm
Projection lamp		350 W Metal halide
Contrast ratio		100:1
Video input signal		BNC Connector: VIDEO, composite video, 1Vp-p, sync negative, 75Ω terminated RCA Connector: AUDIO, 142 mVrms, more than 47kΩ (stereo)
S-video input signal		4-pin mini DIN connector Y (luminance signal): 1 Vp-p, sync negative, 75Ω terminated C (chrominance signal): burst 0.286 Vp-p, 75Ω terminated
Video (monitor) output signal		BNC Connector: VIDEO, composite video 1Vp-p, sync negative, 75Ω terminated RCA Connector: AUDIO, 142 mVrms, more than 47kΩ (stereo)
Horizontal resolution		500 TV lines (video input)
Audio output		3W (monaural)
Computer RGB input signal	Video signal	15 pin mini D-sub connector: RGB separate type analog input: 0-0.7Vp-p, positive, 75Ω terminated Stereo MiniJack: AUDIO, 142m Vrms, more than 47 kΩ (stereo)
	Horizontal sync. signal	TTL level (positive/negative) or composite sync (Apple only)
	Vertical sync. signal	
RGB video input signal	Video signal	BNC Connector: RGB separate type Analog input: 0-0.7Vp-p, positive, 75Ω terminated Stereo MiniJack: AUDIO, 142 mVrms, more than 47kΩ (stereo)
	Composite sync. signal	TTL levels
Speaker system		3"(8 cm) round
Rated voltage		AC 200 - 240V
Rated frequency		50/60 Hz
Power consumption		470W
Operating temperature		5°C to 40°C
Storage temperature		- 20°C to 55°C
Cabinet		Plastic
Dimensions (WxDxH)		550 × 471 × 230 mm projector only 550 × 538 × 230 mm incl. terminal cover
Weight		15.7 kg projector only, 16.0 kg incl. terminal cover
Supplied accessories		Remote control unit, four AA batteries, lens cover (installed), terminal cover, VGA signal cable, Mac/VGA adaptor, two BNC/RCA adaptors, extra air filter, inverting labels, High-Mount dust cover, four cord wrap pegs
Replacement parts		Remote control, Air filter, VGA cable, Mac/VGA adaptor

Our projector uses LCD (Liquid Crystal Display) panels. These very sophisticated panels contain 309,120 pixel (xRGB) TFTs. (Thin Film Transistors). As with any high technology electronic equipment such as large screen TVs, video systems and/or video cameras, there are certain acceptable tolerances that the equipment must conform to.

Sharp's acceptable tolerances permit a total of six (6) inactive TFTs, which may result in illuminated dots on the picture screen.

This will not affect the picture quality or the life expectancy of the unit.

*Specifications are subject to change without notice.

NOTE TO SERVICE PERSONNEL

UV-RADIATION PRECAUTION

The light source, metal halide lamp, in the LCD projector emits small amounts of UV-Radiation.

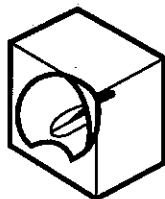
AVOID DIRECT EYE AND SKIN EXPOSURE.

To ensure safety please adhere to the following:

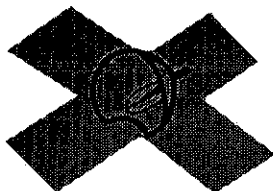
1. Be sure to wear sun-glasses when servicing the projector with the lamp turned "on" and the top enclosure removed.



2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type CLMPF0034DE07 rated 65V/350W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

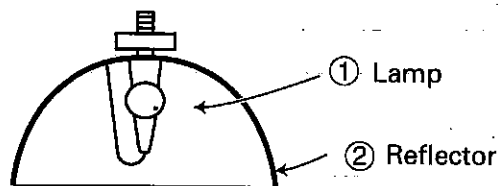
Lamp Replacement

Note:

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.)

Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.

[Use original replacement only.]



DANGER ! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Since small amounts of UV-Radiation are emitted from an opening between the duct cover and the lamp housing, it is recommended to place the LENS CAP on the opening during servicing to avoid eye and skin exposure (Fig. 1).

Note: Please obtain a lens cap before servicing models XG-3900E/E that is received without one.

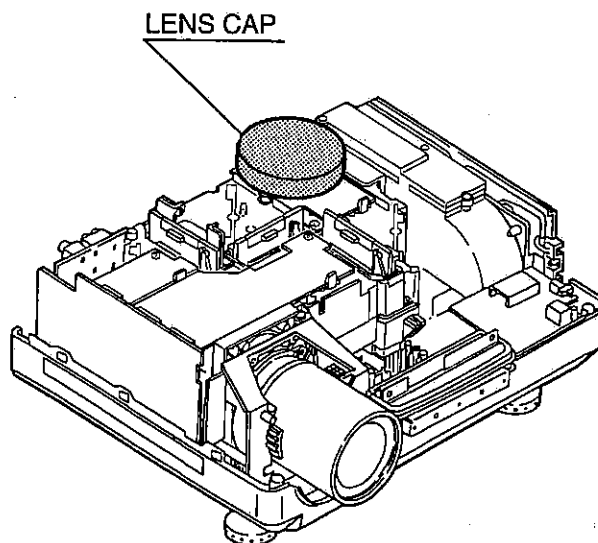
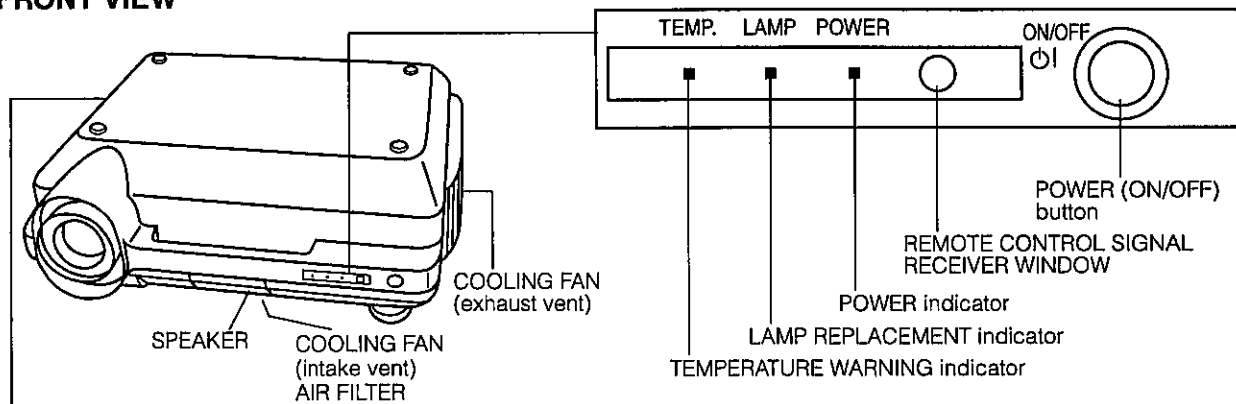


Figure 1.

Location of Controls

FRONT VIEW



CAUTIONS:

- Allow at least 10 cm of space between the cooling fan (exhaust vent) and the wall.
- If the cooling fan becomes obstructed, a protection device will automatically turn off the projector lamp. This does not indicate a malfunction. Remove the projector plug from the wall outlet and wait 10 minutes. Then turn on the power by plugging the cord back in. This will return the projector to its normal mode.

OPERATION PANEL ON SIDE OF PROJECTOR

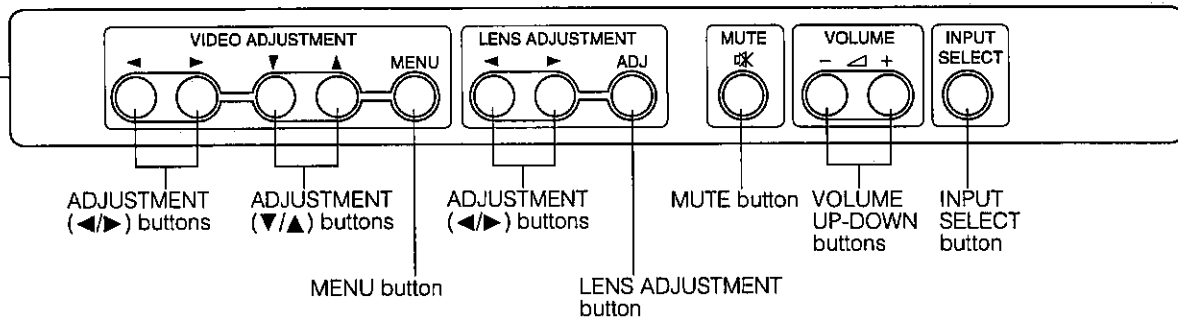
Phosphorescent Display

The operation controls on the right side use a phosphorescent display for easy viewing. When exposed to surrounding light, the phosphorescent display will glow in the dark.

(Glow ratio)

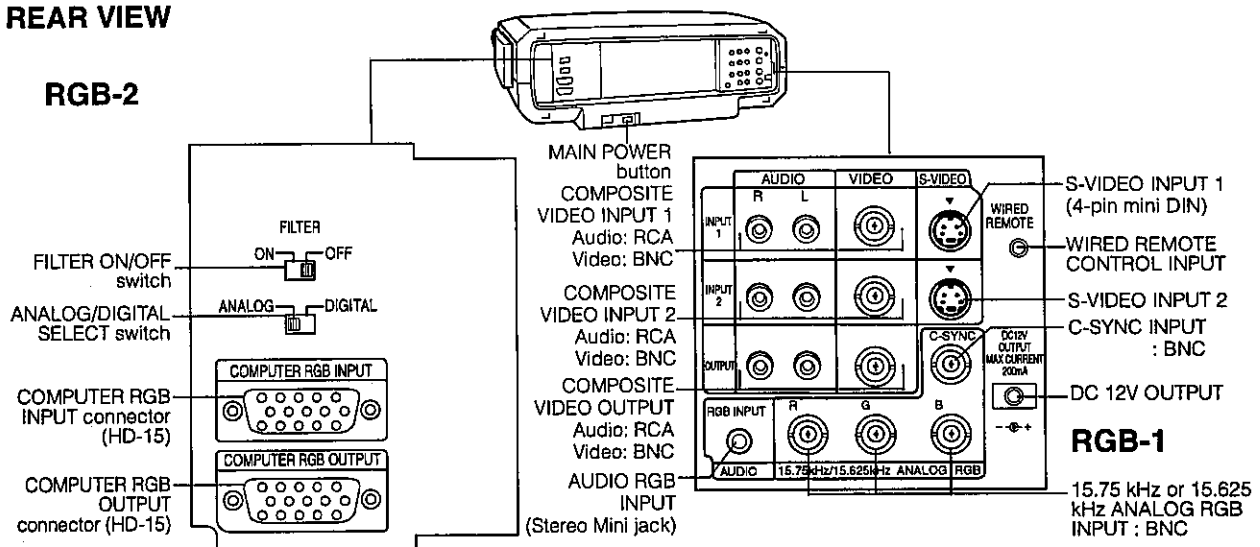
When exposed to sunlight or other light of 500 lux or more for about 10 minutes, the display will glow for about 1 hour.

(Note: 500 lux = 1-1.5m directly under a 40W fluorescent light.)



REAR VIEW

RGB-2



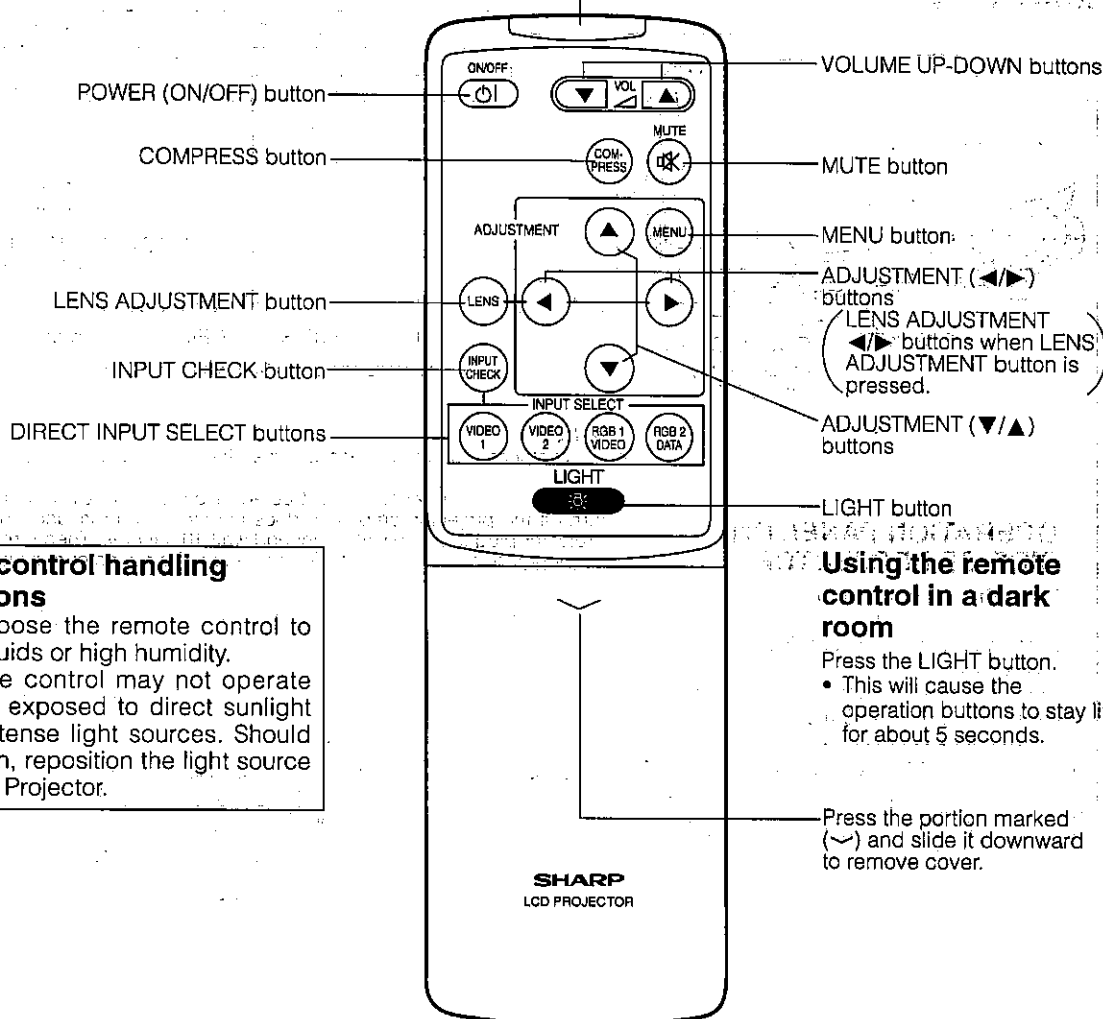
Note:

- If a current of 200mA or more is drawn from the DC 12V OUTPUT jack, a protection device will automatically turn off the projector and leave it in Stand-by mode.

Remote Control Operation

REMOTE CONTROL

REMOTE CONTROL SIGNAL TRANSMITTER



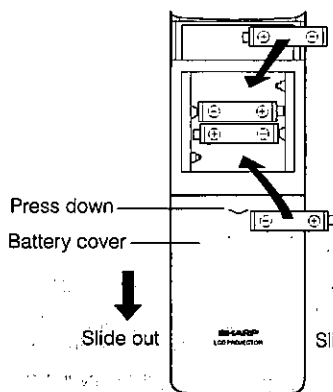
Remote control handling precautions

Do not expose the remote control to shocks, liquids or high humidity. The remote control may not operate normally if exposed to direct sunlight or other intense light sources. Should this happen, reposition the light source or the LCD Projector.

Using the remote control in a dark room

Press the LIGHT button.
• This will cause the operation buttons to stay lit for about 5 seconds.

Press the portion marked (↘) and slide it downward to remove cover.



Inserting the Batteries

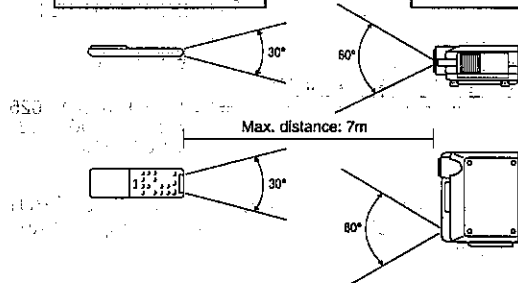
Remove the battery cover as shown and insert four AA size batteries making sure the polarity matches the (+) and (-) marks inside the battery compartment.

Notes:

- Incorrect use of batteries may cause them to leak or burst.
- Insert the batteries with the (+) and (-) polarities as indicated.
- Remove the batteries if the remote control will not be operated for an extended period of time.
- Maintain the batteries in clean condition.
- Do not mix different brands of batteries. The life expectancy of the new batteries will be shortened and the old batteries may leak.
- When the batteries have been used up, remove them immediately to prevent leakage and damage. Leaked battery fluid may irritate the skin. Remove any battery fluid by wiping with a cloth.
- Due to storage conditions and the shelf life of the supplied batteries, they may run out after a short time. Replace them with new batteries as soon as possible.

Transmission range

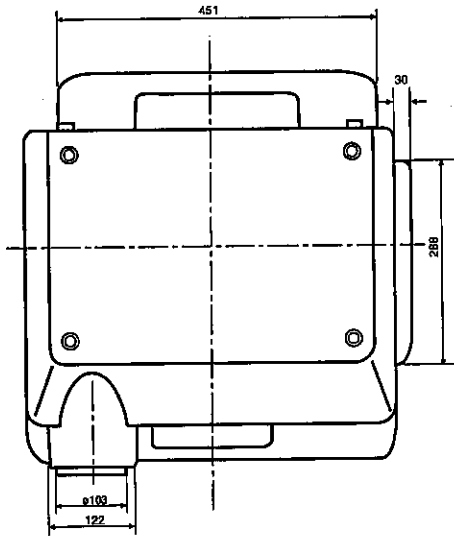
Reception range



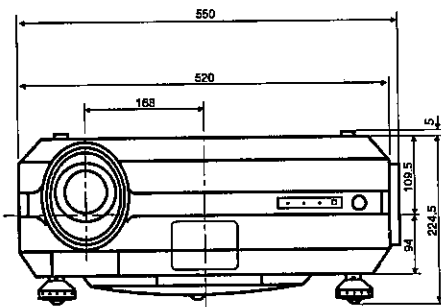
Remote control positioning

Use the remote control as shown in the figures on the left.

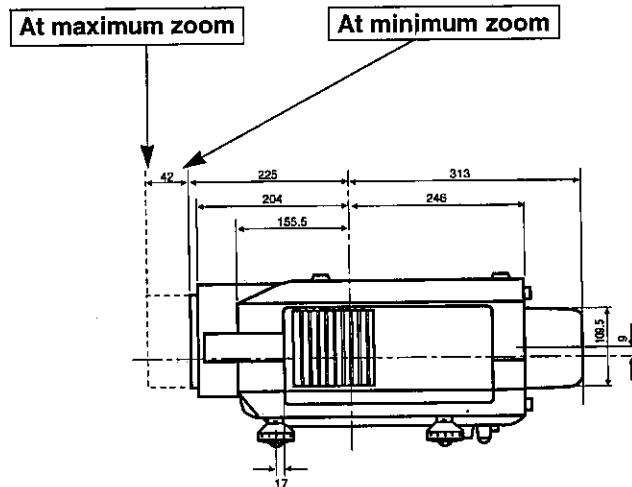
Dimensions



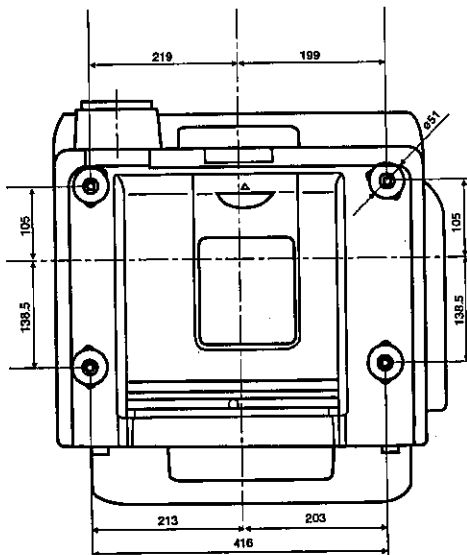
Top View



Front View



Side View



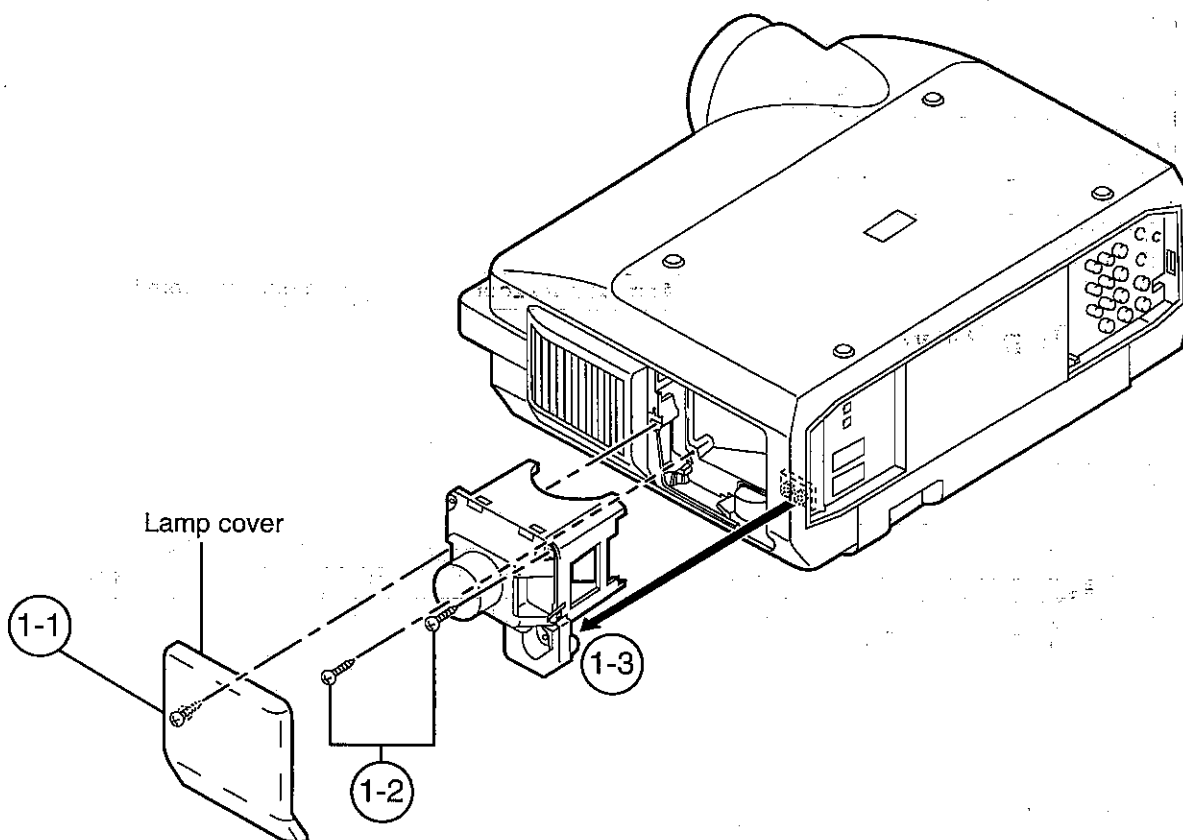
Bottom View

[Units: mm]

REMOVAL OF MAJOR COMPONENTS

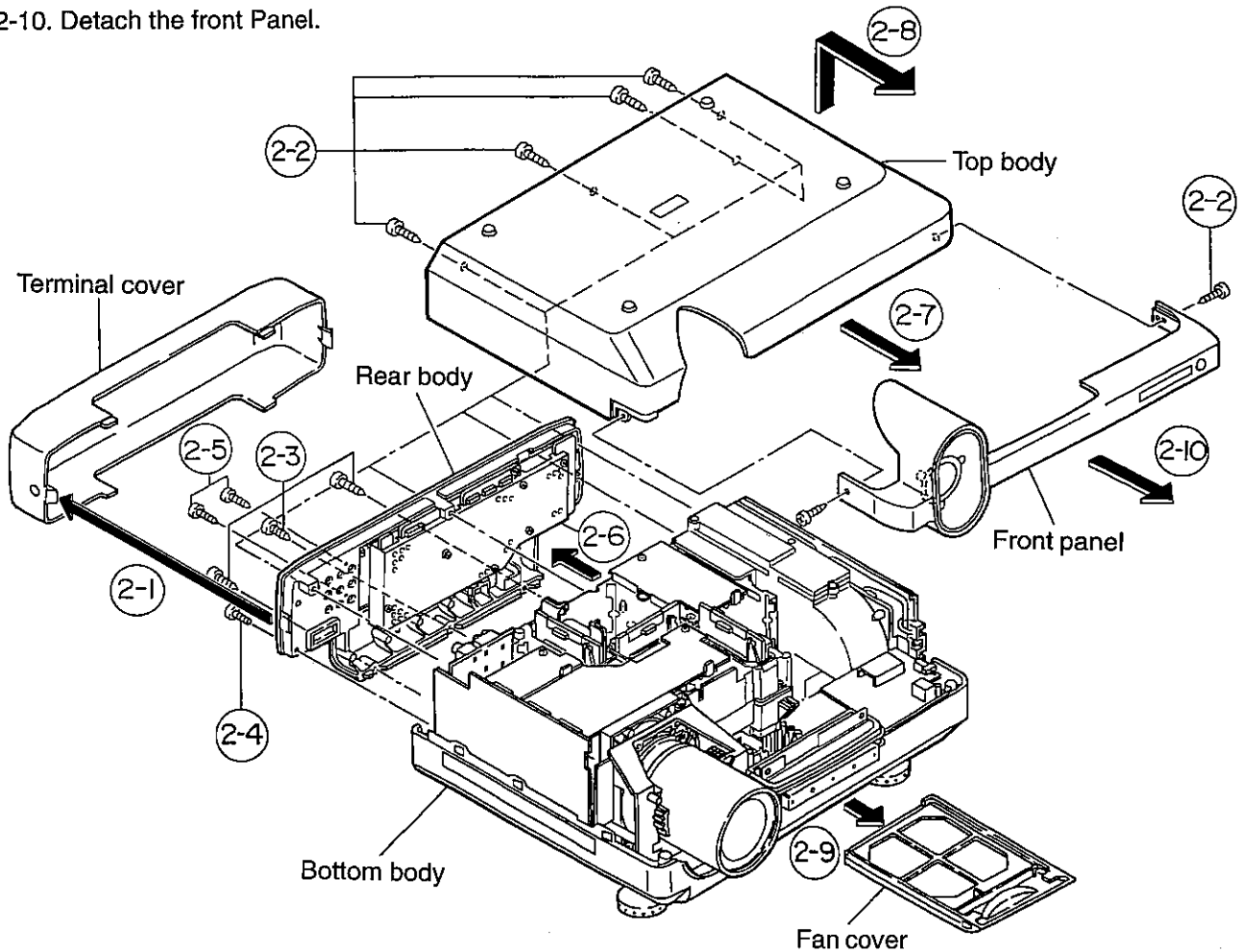
1. Removing the lamp unit

- 1-1. Remove the screw off the lamp cover and detach the cover.
- 1-2. Remove the two screws off the lamp unit.
- 1-3. Draw out the lamp unit.



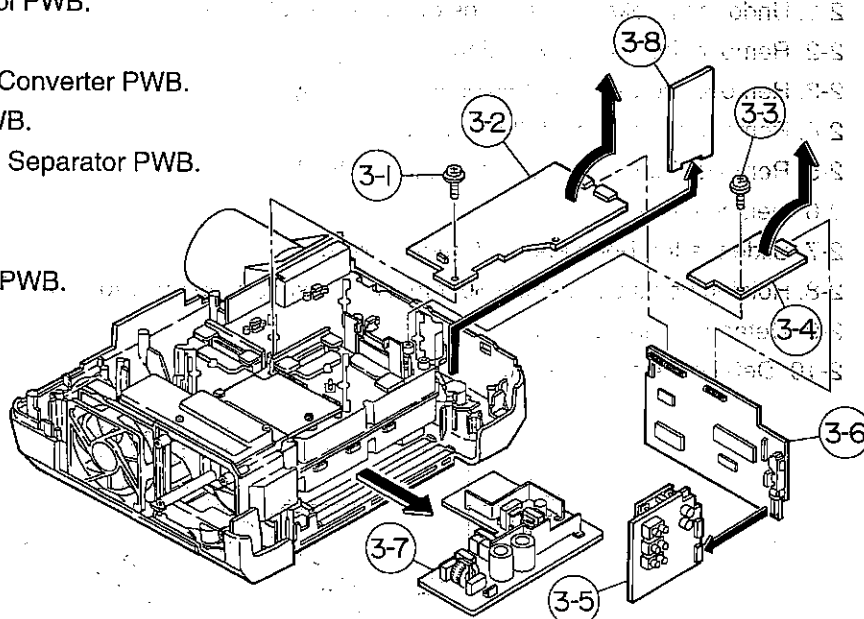
2. Removing the top and bottom body as well as the fan cover.

- 2-1. Undo the hooks at both ends of the Terminal cover.
- 2-2. Remove the six screws off the top body.
- 2-3. Remove the three screws off the rear body.
- 2-4. Remove the screw off the rear body.
- 2-5. Remove the two screws off the input PWB.
- 2-6. Detach the rear body.
- 2-7. Slide the top body about 10 mm forward.
- 2-8. Holding up its back about 30 mm high, push the top body forward of f position.
- 2-9. Detach the fan cover.
- 2-10. Detach the front Panel.



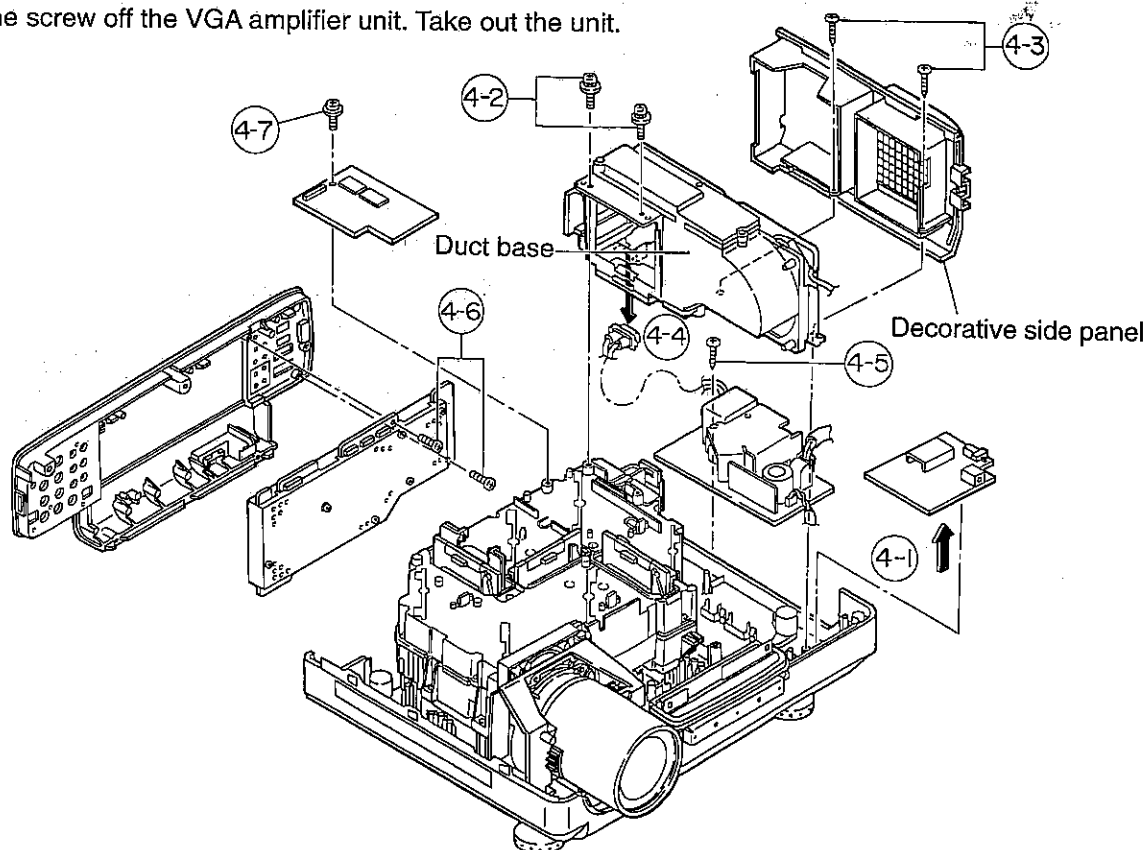
3. Removing the Main and Sub PWBs

- 3-1. Remove the screw off the Control PWB.
- 3-2. Take out the Control PWB.
- 3-3. Remove the screw off the Scan Converter PWB.
- 3-4. Take out the Scan Converter PWB.
- 3-5. Take out the input PWB and Y/C Separator PWB.
- 3-6. Take out the Main PWB.
- 3-7. Take out the Power PWB.
- 3-8. Take out the Sharpness Control PWB.



4. Removing the PWBs

- 4-1. Take out the Audio Amp/LED PWB.
- 4-2. Remove the two screws off the fan unit.
- 4-3. Remove the two screws off the decorative side panel.
- 4-4. Disconnect the Ballast PWB socket.
- 4-5. Remove the screw to take out the Ballast PWB.
- 4-6. Remove the two screws that secure the PC I/F unit. Take out the unit.
- 4-7. Remove the screw off the VGA amplifier unit. Take out the unit.

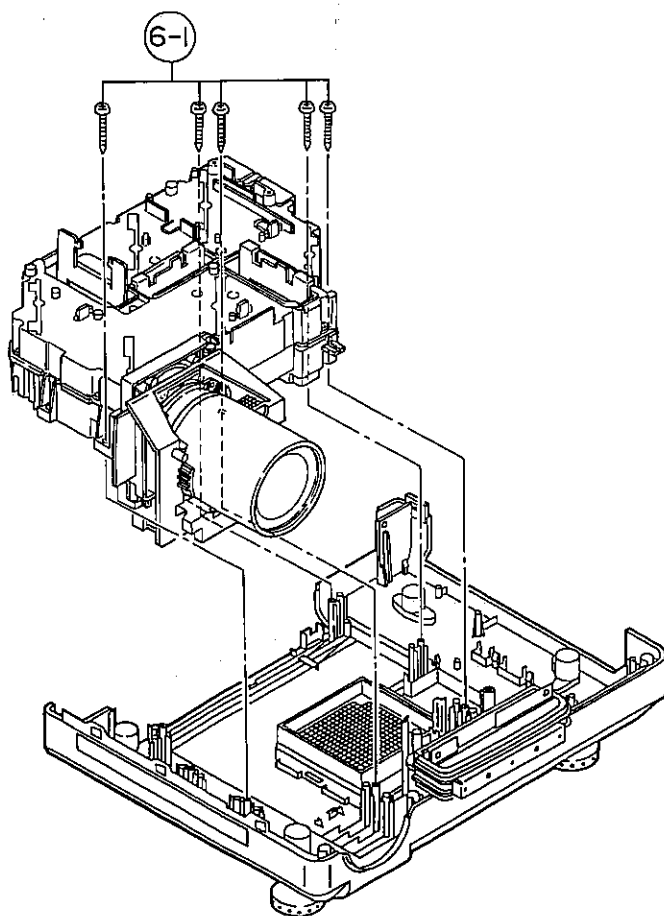
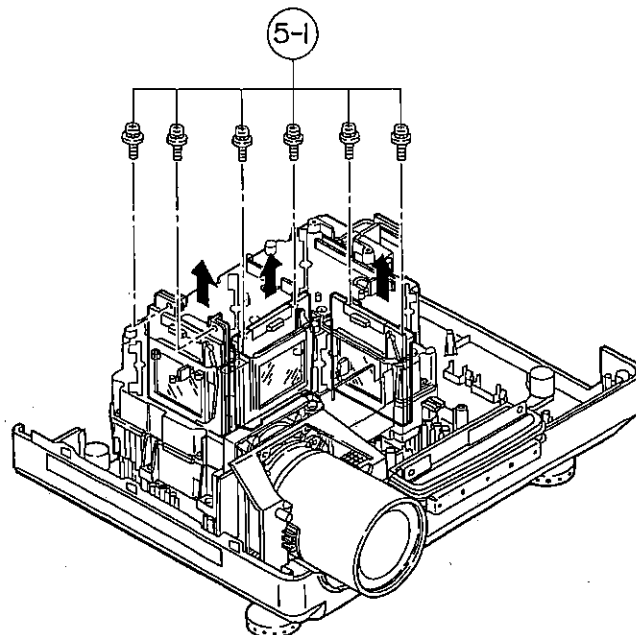


5. Replacing the LCD panels

5-1. Remove the screws, two each from the R, G and B LCD panels, and take out the panels.

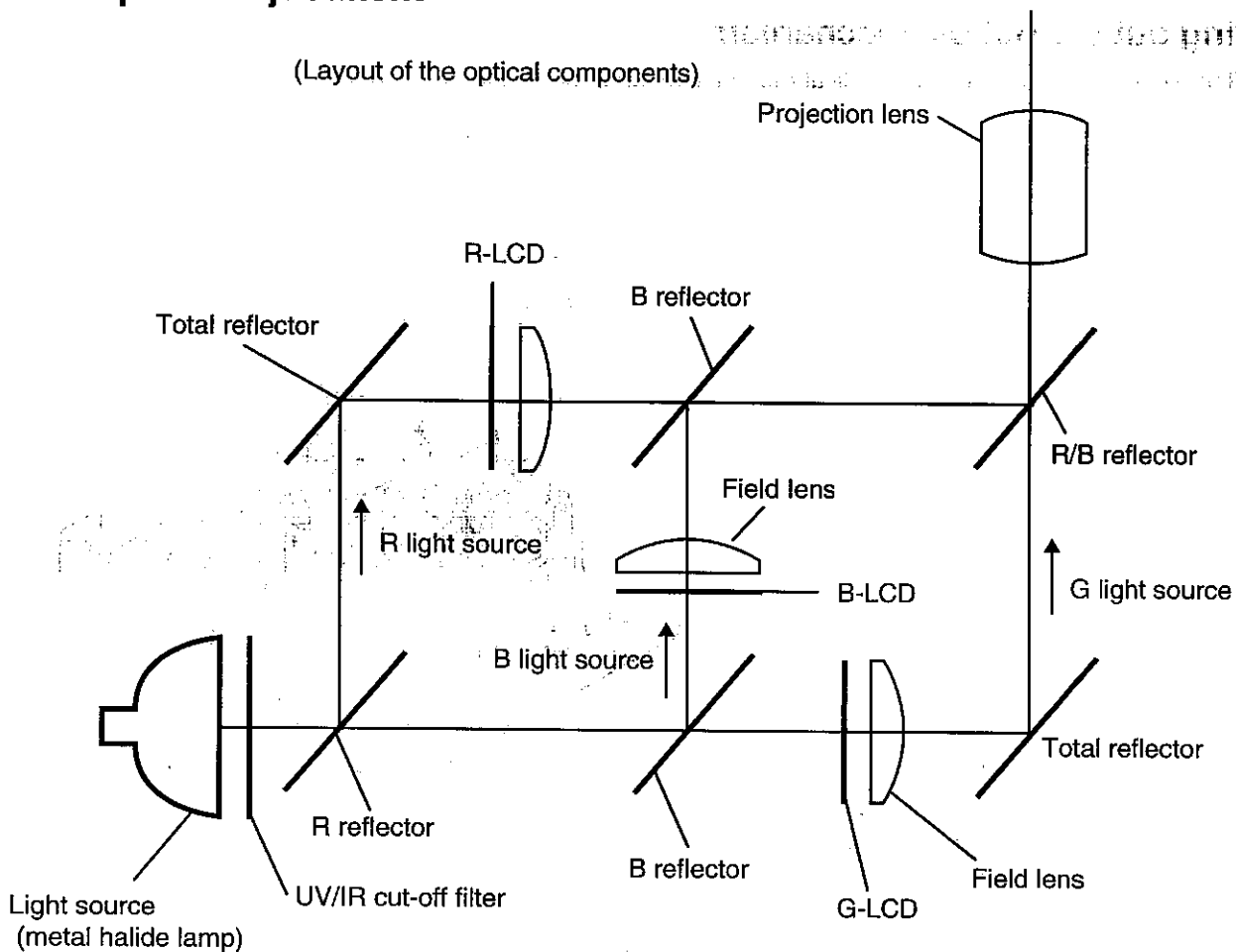
6. Taking out the optical mechanism

6-1. Remove the five screws off the optical mechanism, and detach the mechanism.



THE OPTICAL UNIT OUTLINE

Basic optical adjustment



1. Optical axis alignment

The adjustment-free optical unit requires no optical axis alignment. (It is impossible to make this adjustment.)

2. LCD alignment

R: R-LCD unit – Field lens – R/B reflector – Projection lens

G: R-LCD unit – Field lens – Total reflector – Projection lens

B: R-LCD unit – Field lens – B reflector – R/B reflector – Projection lens

Each of the LCD units can be adjusted to improve the view angle and focusing.

■ Cleaning the lenses and reflectors

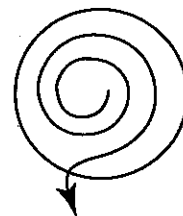
1. Lens cleaning

- agent:

Change the mixture ratio of alcohol and ether depending on ambient temperatures. Make sure that the liquid evaporates from the lens surface immediately after you rub it: This is the best ratio. The more ether is used, the quicker the liquid evaporates.

- Method:

Use well-washed bleached cotton or cleaning paper available on the market. Hold the lens, sandwiched in the bleached cotton damped with liquid, with the thumb and the index finger. Turn the lens and wipe the surface clean from the center outward to collect dust. Be careful not to rub the coated surface too strong.



2. Reflector cleaning

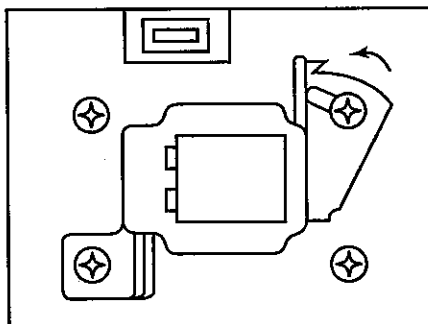
Never rub the reflector strongly because its surface has been deposit-coated. Use some alcohol first and then wipe with dry cloth if the surface is slightly dirty.

3. Precaution

The picture quality is greatly affected if both sides of the LCD unit and the LCD side of the field lenses are dirty. Pay enough attention to these surface.

■ Adjustment after LCD panel replacement

No angular adjustment of the polarizing plate is needed because of the improved angular precision. Just turn all the way counterclockwise and fix at that position.



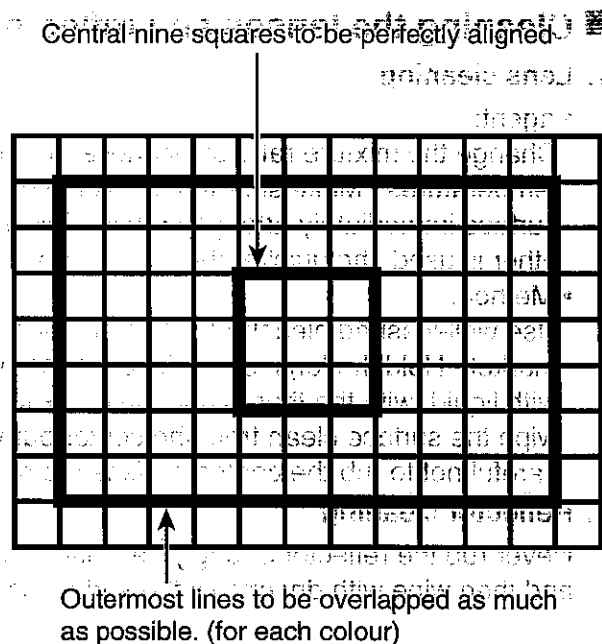
■ X and Y adjustment

1. Tools required

- (1) Shielding plate (hard coated cardboard to cut off light rays)
- (2) Pattern generator

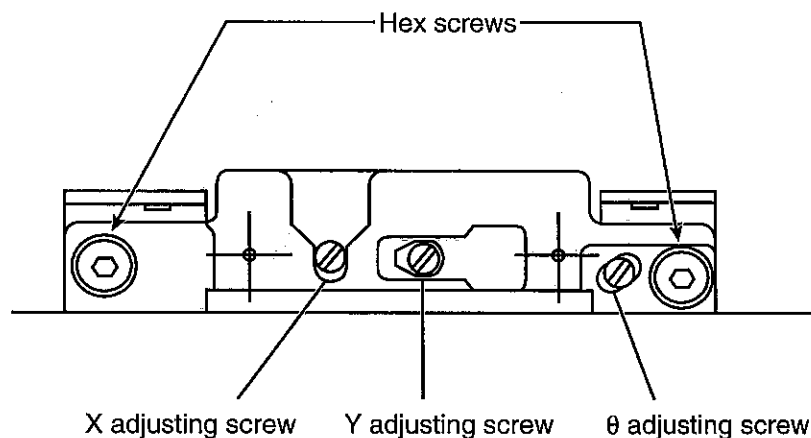
2. Adjustment references

- (1) Use the G-panel as reference. Adjust the R and B panels to the G panel.
- (2) Perfectly align the central nine squares to the projection pattern.
- (3) Keep the outermost lines overlapped as much as possible.

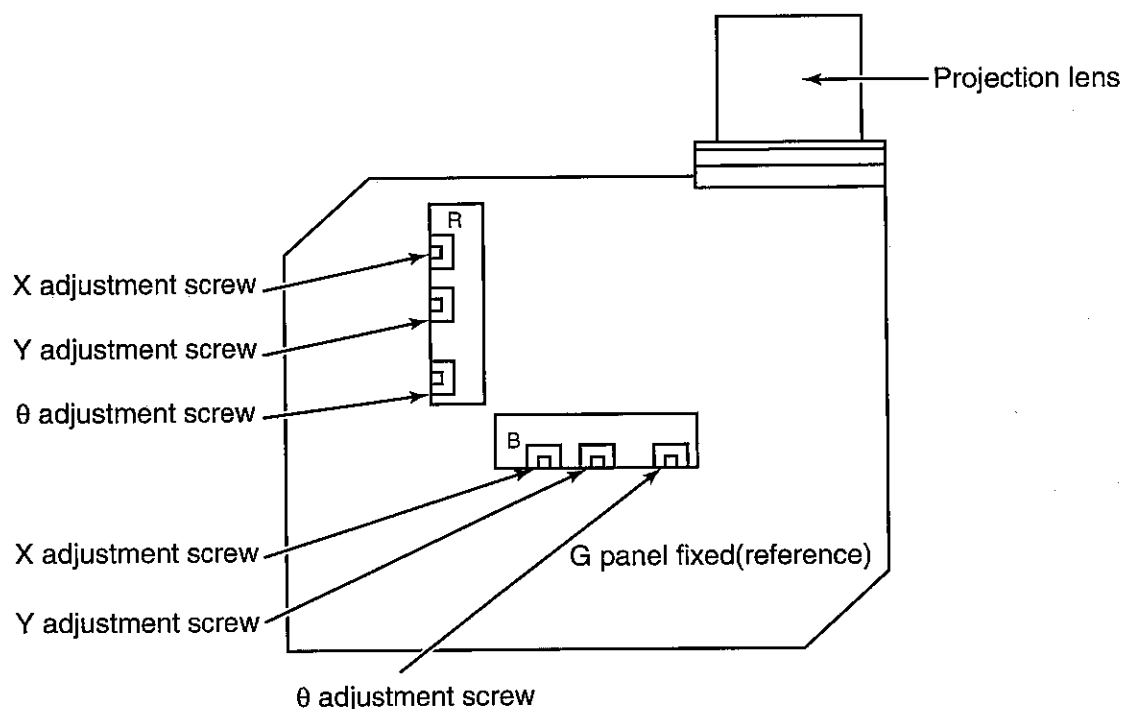


3. Adjustment procedures

- (1) Loosen two hex screws each for the R-LCD panel and the B-LCD panel. (4 screws total)
- (2) Input the grid signal from the pattern generator.
- (3) Align the R-LCD panel.
 - Put the shielding plate in front of the B-LCD panel. (To cutoff the B light source.)
 - Adjust the X axis for horizontal direction.
 - Adjust the Y axis for vertical direction.
 - Adjust the θ direction for tilting.

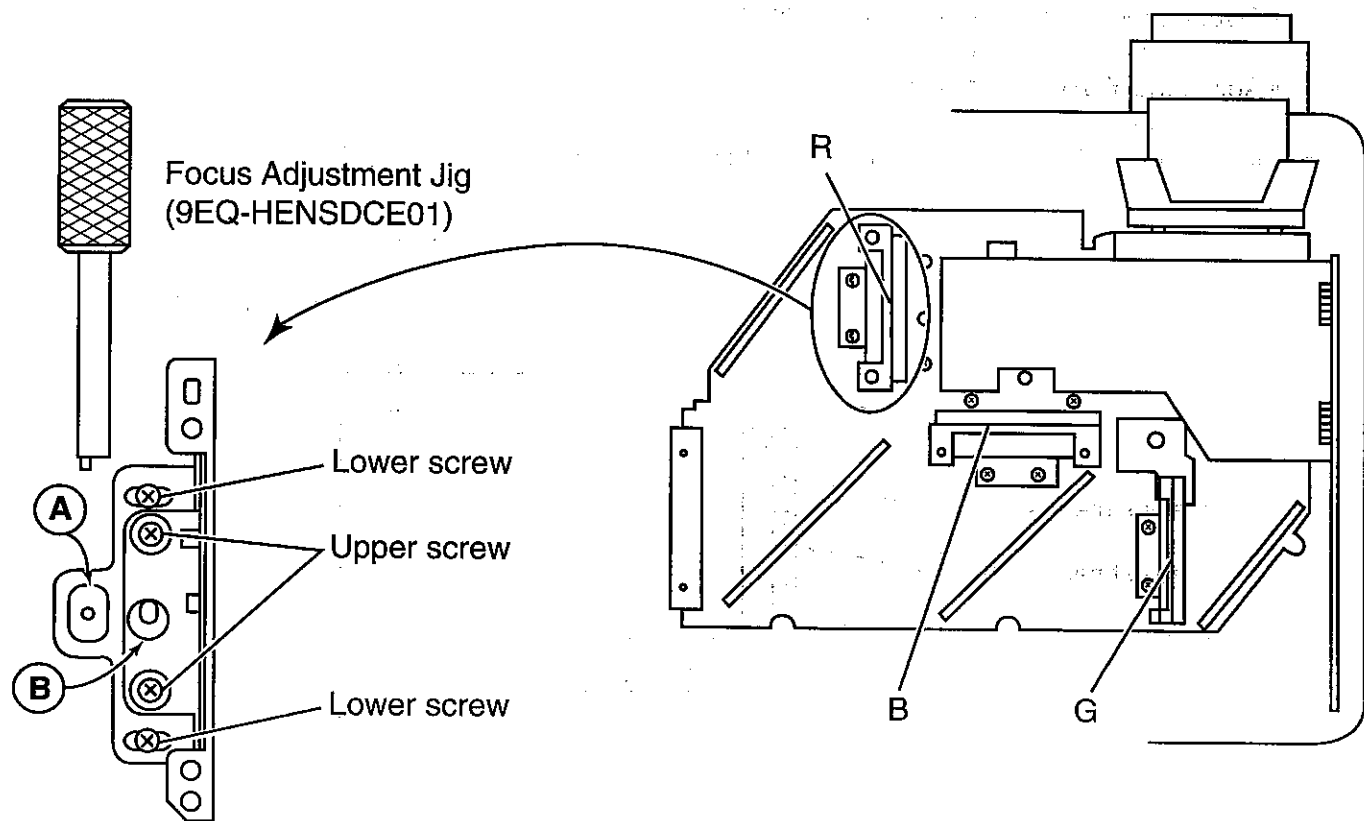


- (4) Align the B-LCD panel.
- Put the shielding plate in front of the R-LCD panel. (To cutoff R light source.)
 - Overlap the B squares on the G squares.
 - Adjust the X axis for horizontal direction.
 - Adjust the Y axis for vertical direction.
 - Adjust the θ direction for tilting.
- (5) Tighten up the four hex screw (loosened in step (1) above) to 13 ± 1 kg-cm.



Adjustment screw	Roatating direction	R	B
θ	Clockwise	Right side up	Right side down
	Counterclockwise	Right side down	Right side up
Y	Clockwise	Lowered	Raised
	Counterclockwise	Raised	Lowered
X	Clockwise	Moves to right	Moves to left
	Counterclockwise	Moves to left	Moves to right

FOCUS ADJUSTMENT



Top view of the red- and blue-colour converters

1. Take out the front body.
2. Take out the top body.
3. Place the unit as shown above (top view). Adjust the projection lens for the green-colour focus. (Keep the red and blue colours shut off.)
4. Loosen the two upper screws and the two lower screws (four in total) as shown at left to let loose the red-colour converter.
5. With the green and blue colors cut off (light shielding plate inserted), allow in the red color only. Looking at the red-color image on the screen, take the following steps.
 - 5-1. If the top half on the screen is out of focus, insert the eccentric pin at the tip of the focus adjustment jig in the hole (Part A) at the bottom of the red-color converter, and turn the jig. By this, the bottom of the red-color converter shifts to and fro with respect to the light's traveling direction, which puts the top half on the screen in focus. While looking at the screen, achieve the best focus. Finally tighten up the lower screws.
 - 5-2. If the bottom half on the screen is out of focus, insert the eccentric pin at the tip of the focus adjustment jig in the oval hole (Part B) at the top of the red-color converter, and turn the jig. By this, the top of the red-color converter shifts to and fro with respect to the light's traveling direction, which puts the bottom half on the screen in focus. While looking at the screen, achieve the best focus. Finally tighten up the upper screws.
 - 5-3. When the bottom half of the screen has been put in focus, the top half may get out of focus again. In such case, loosen the lower screws and take Step 5-1. again to get the best focus. Finally tighten up the lower screws.
6. Tighten up the above four loose screws.
7. Take the same steps 4. - 6. to adjust the blue-colour focus.
8. Place the top and front bodies back into position.

ADJ. IN FUNCTION

1. Outline

This function is intended to make various adjustments using the ADJ. IN. switch (S2001) and membrane switch of the projector.

2. Keys used

[S2001], [MENU], [INPUT SELECT], [SELECT UP:▲], [SELECT DOWN:▼], [ADJUST+:>], [ADJUST-:<], [VIDEO+/-], [BRIGHT+/-], [COLOUR+/-], and [TINT+/-]

3. Last memory items

Adjustment items: The previous settings in the ADJ. IN. mode are put in memory.

Adjustment data for all the items

4. Procedures

4-1. Call the ADJ. IN. mode using the [ADJ. IN.] switch.

4-2. With the [SELECT UP], [SELECT DOWN], [ADJUST+] and [ADJUST-] keys, select a desired group of adjustment items. Press the [MENU] key.

4-3. With the ▲, ▼, < and > keys, pick up a desired adjustment item in the group. Press the [MENU] key. (By pushing the ▲ or ▼ key, the adjustment items in the group change one after the other.)

4-4. Press the [INPUT SELECT] key, and the just previously displayed adjustment item comes back on the screen.

4-5. If the [ADJ. IN.] switch is pressed in the ADJ. IN. mode, the mode is called off. (The display in the ADJ. IN. mode is all expressed in English.)

5. Groups of adjustment items

VIDEO 1	VIDEO 2	VIDEO 3	RGB 1	RGB 2	LENS	MASK	N • W
SUB-DC SUB-C TINT COLOUR PICTURE BRIGHT	CB-R CB-G CB-B SUB-BIAS R-DRIVE R-BIAS R-DRIVE R-BIAS	PAL-SUB-C BELL-FO SCM-R-Y SCE-B-Y PN-AMP SCM-AMP PAL-H	SUB-C	PICTURE BRIGHT R-DRIVE B-DRIVE PULSE H-PHASE	AUTO STANDARD TOP BOTTOM POINT	TOP BOTTOM	RED GREEN BLUE WHITE N • W

In the video input mode: VIDEO 1-3, LENS, MASK, N.W

In the RGB 1 input mode: RGB 1, LENS, N.W

In the RGB 2 input mode: RGB 2, LENS, N.W

DAC OPERATION

VIDEO 1

SUB-DC: Sub-DC adjustment
 SUB-C: Sub-contrast adjustment
 TINT: Tint adjustment
 COLOUR: Colour adjustment
 PICTURE: Picture adjustment
 BRIGHT: Brightness adjustment

VIDEO 2

CB-R: Counterbias adjustment for red only
 CB-G: Counterbias adjustment for green only
 CB-B: Counterbias adjustment for blue only
 SUB-BIAS: Not used
 R-DRIVE: White balance (red) drive adjustment
 R-BIAS: White balance (red) bias adjustment
 B-DRIVE: White balance (blue) drive adjustment
 B-BIAS: White balance (blue) bias adjustment

VIDEO 3

PAL-SUB-C: PAL sub-contrast adjustment
 BELL-FO: Bell filter adjustment
 SCM-R-Y: SECAM R-Y adjustment
 SCM-B-Y: SECAM B-Y adjustment
 PN-AMP: PN amplitude adjustment
 SCM-AMP: SECAM amplitude adjustment
 PAL-H: Horizontal phase adjustment

RGB 1

SUB-C: Sub-contrast adjustment

RGB 2

PICTURE: Picture adjustment
 BRIGHT: Brightness adjustment
 R-DRIVE: White balance (red) adjustment
 B-DRIVE: White balance (blue) adjustment
 PULSE: Reset pulse timing adjustment
 H-PHASE: Horizontal phase adjustment

LENS

Lens shift adjustments

AUTO: Shift setting

STANDARD: Not used

TOP: Not used

BOTTOM: Not used

POINT: Not used

MASK

Masking adjustments

TOP: Masking positioning for top-half screen

BOTTOM: Masking positioning for bottom-half screen

N.W

Single-colour displays

R: Red

G: Green

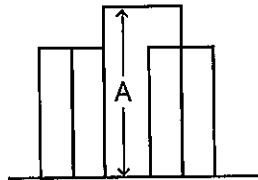
B: Blue

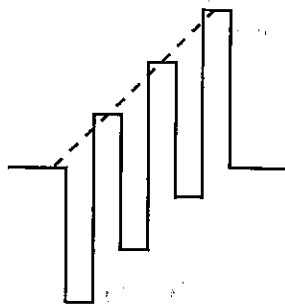
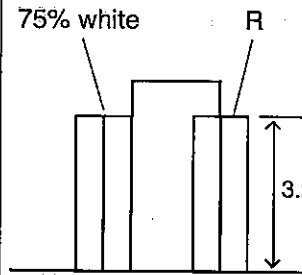
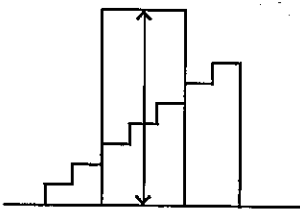
W: White

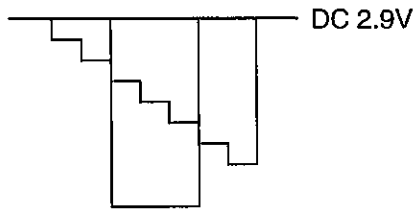
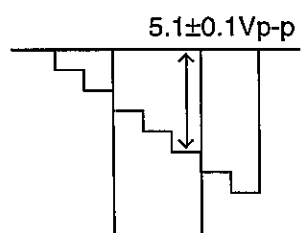
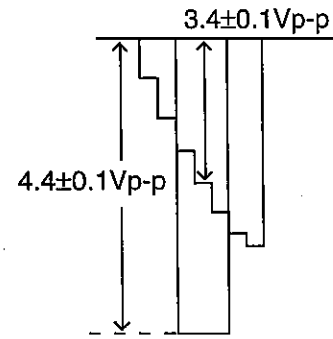
N.W: White

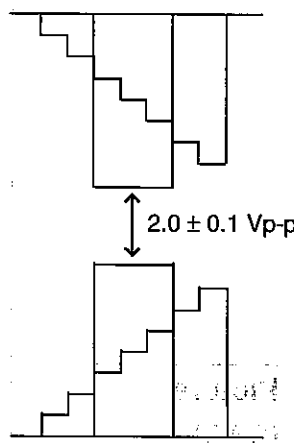
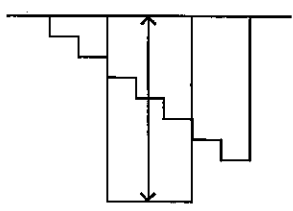
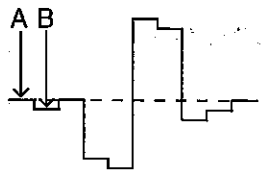
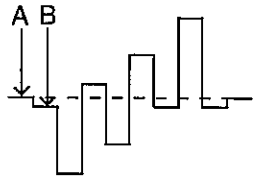
ELECTRICAL ADJUSTMENT

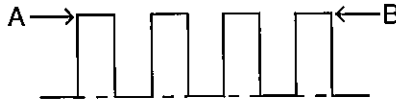
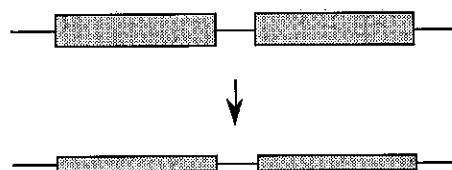
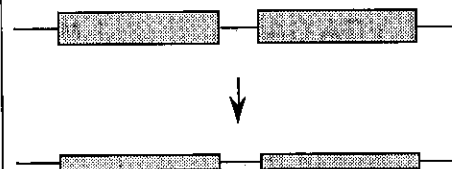
NOTE: The settings have been factory-adjusted to their best points. If any of them gets out of spec or after any relevant part has been replaced, make the related adjustment.

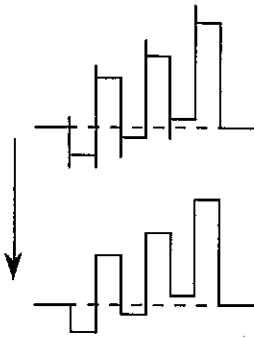
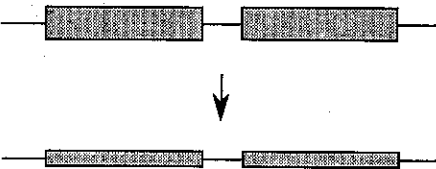
Step	Adjustment position	Adjustment condition	Adjustment method
1	Position of Lens Shift	1. Set the lens shift as standard position. 2. Set the follow DAC mode. Group : LENS Subject : AUTO by push S2001 and +/- key on membrane switch.	Push DAC (+) in membrane switch, microprocessor operate Lens Shift automatically and save data.
2	VCO primary OSC L1601 (Control Unit)	1. Receive the monoscope pattern signal. 2. Push S1601.	Adjust the core of L1601 so the image appears on the screen. After adjustment, take off the S1601.
3	H-center R1603	1. Receive the monoscope pattern signal.	Using the R1603, adjust H-center.
4	Scan convert L4101	1. Make a short circuit between TP4101 and GND. 2. Connect the frequency counter to TP4102.	Adjust L4101 so that the frequency counter should read 15.625 ± 0.01 kHz.
5	Sub DC (DAC)	1. Receive the colour bar signal. 2. Push S2001 and set the follow DAC mode. Group : VIDEO 1 Subject : Sub DC 3. Connect the oscilloscope to pin (5) of SC801.	Using DAC +/-key, adjust the black level as same as pedestal level.
6	Sub contrast (DAC)	1. Select the S801 in the AGC off mode. (Open R1540 by S801.) 2. Receive the colour bar signal. 3. Push S2001 and set the follow DAC mode. Group : VIDEO 1 Subject : Sub C 4. Connect the oscilloscope to pin (6) of SC801.	Using the DAC +/- key on the membrane SW, adjust the "A" level of the pedestal and 100% white waves to 3.4 ± 0.05 Vp-p.  A: 3.4 ± 0.05 Vp-p

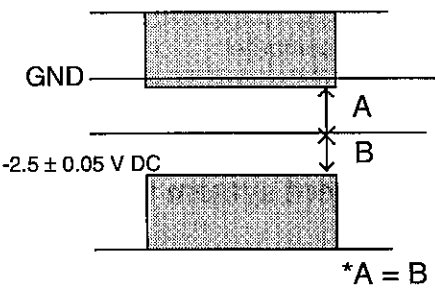
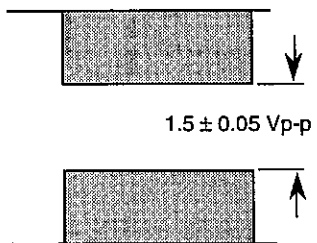
Step	Adjustment position	Adjustment condition	Adjustment method
7	TINT (DAC)	1. Receive the colour bar signal. 2. Push S2001 and set the follow DAC mode. Group : Video 1 Subject : TINT 3. Connect the oscilloscope to GND and TP802 [pin (41) of IC801 (B-Y out)].	Adjust B-Y waveform freshtone by +/- key on membrane SW. (Refer to below waveform) 
8	Colour (DAC)	1. Receive the colour bar signal. 2. Push S2001 and set the follow DAC mode. Group : Video 1 Subject : Colour 3. Connect the oscilloscope to pin (6) of SC801	Adjust level between R and pedestal 3.25 ± 0.05 Vp-p by +/- key on membrane switch. 
9	AGC R1539	1. Select the S801 in the AGC on mode. (R1540 connected) 2. Receive the colour bar signal. 3. Connect the oscilloscope to pin (6) of SC801.	Adjust level between 100% white and pedestal level 3.0 ± 0.05 Vp-p. 

Step	Adjustment position	Adjustment condition	Adjustment method
10	Bright (DAC) AGC ON	1. Receive the colour bar signal. 2. Set the pin (2) of SC1501 DC +4V with R1516 be γ-off. 3. Push S2001 and set the follow DAC mode. Group : Video 1 Subject : Bright 4. Connect the oscilloscope to pin (5) of SC1501 and GND.	Adjust pedestal level signal DC 2.9 ± 0.05 Vp-p by +/- key on membrane switch. 
11	Picture (DAC) AGC ON	1. Receive the colour bar signal. 2. Set the pin (2) of SC801 DC+4V with R1516 be γ-off 3. Push S2001 and set the follow DAC mode. Group : Video 1 Subject : Bright	Adjust level between pedestal and 5th gradation 5.1 ± 0.1 Vp-p by +/- key on membrane switch. 
12	γ-correct R1516 R1517 AGC ON	1. Receive the colour bar signal. 2. Connect the oscilloscope to pin (6) of SC1501. 3. Push S2001 and set the follow DAC mode. Group : Video 1 Subject : Bright	- Adjust level between pedestal and 4th gradation 3.4 ± 0.1 Vp-p by R1516. - Adjust level between pedestal and 100% white gradation 4.4 ± 0.1 Vp-p by R1517. 

Step	Adjustment position	Adjustment condition	Adjustment method
13	White-to-white level check	1. Receive the colour bar signal. 2. Connect the oscilloscope to TP804(G-OUT) and GND.	• Make sure that the level between the white portions of the top and bottom waves is 2.0 ± 0.1 Vp-p. • If out of this spec, make adjustment referring to "Group : VIDEO 1, Adjustmet item : PICTURE." 
14	PAL Sub Contrast (DAC) AGC ON	1. Receive the PAL colour bar signal. 2. Push S2001 and set the follow DAC mode. Group : Video 3 Subject : PAL Sub-C 3. Connect the oscilloscope to pin (5) SC1501.	• Adjust level between pedestal and 100% white 4.4 ± 0.05 Vp-p by +/- key on membrane switch. 
15	SECAM R-Y (DAC)	1. Receive the SECAM colour bar signal. 2. Push S2001 and set the follow DAC mode. Group : Video 3 Subject : SCM-R-Y 3. Connect the oscilloscope to TP809 (pin (30) of IC802).	• Adjust level "B" as same as "A" level by +/- key on membrane switch. 
16	SECAM B-Y (DAC)	1. Receive the SECAM colour bar signal. 2. Push S2001 and set the follow DAC mode. Group : Video 3 Subject : SCM-R-Y 3. Connect the oscilloscope to TP809 (pin (29) of IC802).	• Adjust level "B" as same as "A" level by +/- key on membrane switch. 

Step	Adjustment position	Adjustment condition	Adjustment method
17	SECAM AMP (DAC)	1. Receive the SECAM colour bar signal. 2. Push S2001 and set the follow DAC mode. Group : Video 3 Subject : SCM-AMP 3. Connect the oscilloscope to pin (4) of SC804.	Adjust "B" level as same as "A" level by +/- key on membrane switch. 
18	PAL H-center (DAC)	1. Receive the PAL or SECAM monoscope pattern signal. 2. Push S2001 and set the follow DAC mode. Group : Video 3 Subject : PAL-H	Adjust image positions center of screen by +/- key on membrane switch.
19	R-Drive R-Bias (DAC)	1. Receive the monoscope pattern signal. 2. Push S2001 and set the follow DAC mode. Group : Video 2 Subject : R-Drive (and R-Bias) 3. Connect the oscilloscope in between TP1804 to CH1 of , and its TP1802 to CH2. Add CH1 and inverted CH2.	Adjust waveform to minimum by +/- key on membrane switch in R-Bias and R-Drive mode 
20	B-Drive B-Bias (DAC)	1. Receive the monoscope pattern signal. 2. Push S2001 and set the follow DAC mode. Group : Video 2 Subject : B-Drive (and B-Bias) 3. Connect the oscilloscope in between TP1804 and CH1, and its TP1806 and CH2. Add CH1 inverted CH2. 4. Short pin (1) and pin (2) of TP3 (P1603). (After adjustment, open pin (1) and pin (2) of TP3(P1603).)	Adjust waveform to minimum by +/- key on membrane switch in B-Bias and B-Drive mode 
21	Colour shade adj. between left and right R1650	1. Receive the monoscope pattern signal. 2. Open pin (1) and pin (2) of TP3(P1605).	Adjust R1650 so that the colour shade between the right and left is minimuzed.

Step	Adjustment position	Adjustment condition	Adjustment method
22	Common DC bias R1885: R R1889: G R1883: B	1. Receive the monoscope pattern signal. 2. Push S2001 and set the follow DAC mode. Group : Video 2 Subject : CB-R, CB-G, CB-B	• Adjust R1885, R1889 and R1883, visually, to the sharpest contrast.
23	Masking Adjustment (DAC)	1. Receive the monoscope pattern signal. 2. Push S2001 and set the follow DAC mode. Group : MASK Subject : TOP, BOTTOM	• Using the video adjustment +/-key, adjust the upper and lower overscan to 95% respectively.
24	Sign Display Position (T2001)	1. Receive the monoscope pattern signal.	• Adjust T2001 so the focus sign on screen display is symmetrical to the right and left side.
25	SECAM BELL Filter (DAC)	1. Receive the SECAM colour bar signal. 2. Push S2001 and set the follow DAC mode. Group : VIDEO 3 Subject : BELL-FO 3. Connect the oscilloscope to TP808 (pin(29) of IC802).	• Adjust edge of waveform between colour and colour smooth, by +/- key on membrane switch. 
26	VGA GAIN R3055 (R) R3252 (G) R3049 (B) (VGA)	1. Make preparation. 1-1. Make TP3301 short-circuited. 1-2. Receive the MAC 16-tone signal. 1-3. Connect the oscilloscope to TP1801. Roughly adjust R3213 so that the black portion of the waveform be clear. 1-4. Do the same rough adjustment for TP1803/R3203 and TP1805/R3205. 2. Connect the oscilloscope in between TP1801 and CH1, and its TP1802 and CH2. Add CH1 and inverted CH2. 3. G : TP1803 and TP1804 B : TP1805 and TP1806	• Adjust waveform to minimum by R3055. G : R3252, B : R3049 

Step	Adjustment position	Adjustment condition	Adjustment method
27	CENTER BIAS R3213 (R) R3202 (G) R3205 (B) (VGA)	1. Receive the MAC 16-tone signal. 2. Connect the oscilloscope in between TP1801 and oscilloscope. G : TP1803 B : TP1805	Adjust center of above waveform and below waveform -2.5 ± 0.05 V DC by R3213. 
28	VGA BRIGHT R3062 (R) R3063 (G) R3064 (B) (VGA)	1. Receive the MAC 16-tone white signal. 2. Connect the oscilloscope to TP1801. G : TP1803 B : TP1805	Adjust white to white level 1.5 ± 0.05 Vp-p by R3062 G : R3063, B : 3064 
29	VGA White Balance (Fine adjustment)	1. Receive the MAC 16-tone signal.	Adjust R3062 and R3064, and visually check to see if the pattern is just the same as that on the CRT monitor.
30	Colour shade adj. between left and right R3313.	1. Remove the short-circuit at TP3301. 2. Receive the MAC gray chart signal.	Adjust R3313 so that the colour unevenness at the right and left of the pattern be minimum.
31	MAC PHASE (DAC)	1. Receive MAC tiling pattern. 2. Push S2001 and set the follow DAC mode. Group : RGB 2 Subject : H-Phase	Adjust +/- key so the noise on screen become minimum.
32	Analog RGB AGC ON	1. Receive the 0.7 Vp-p analog RGB colour bar signal. 2. Push S2001 and set the follow DAC mode. Group : RGB 1 Subject : Sub-C Connect the oscilloscope between pin (5) of SC1501 and GND.	Adjust level between pedestal and white 4.4 ± 0.1 Vp-p by +/- key on membrane switch.

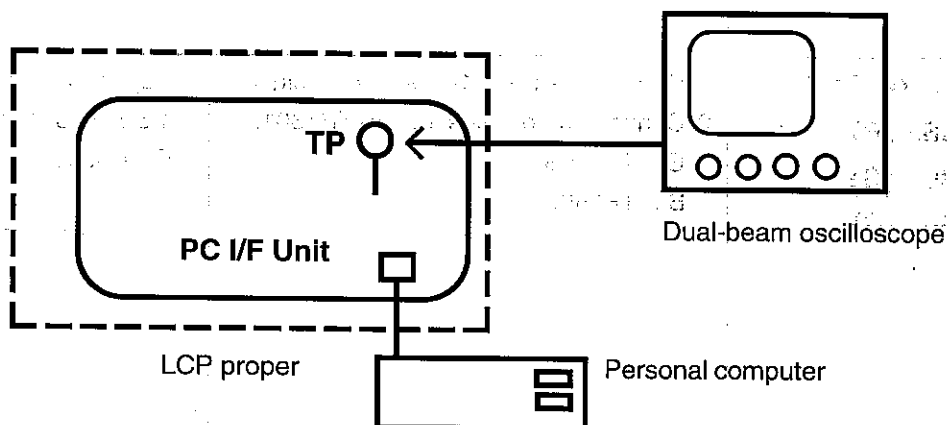
ADJUSTMENT OF THE PC/IF PWB

page 2

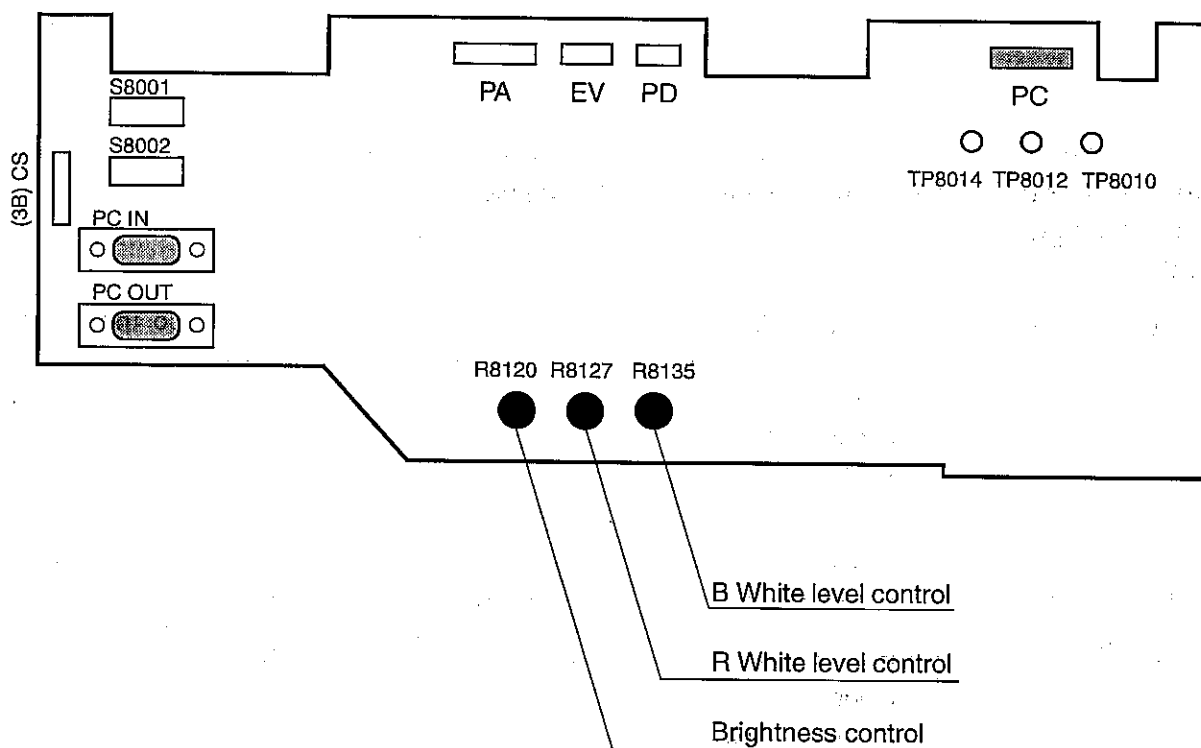
Analog section adjustment

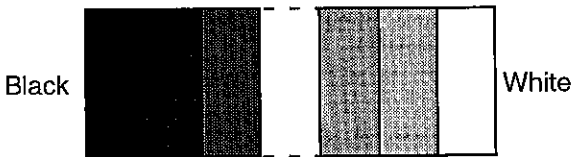
Instruments/tools	Remarks
Personal computer	IBM-PC (VGA), Macintosh (640 * 480)
Control adjusting screwdriver	

Adjustment system layout

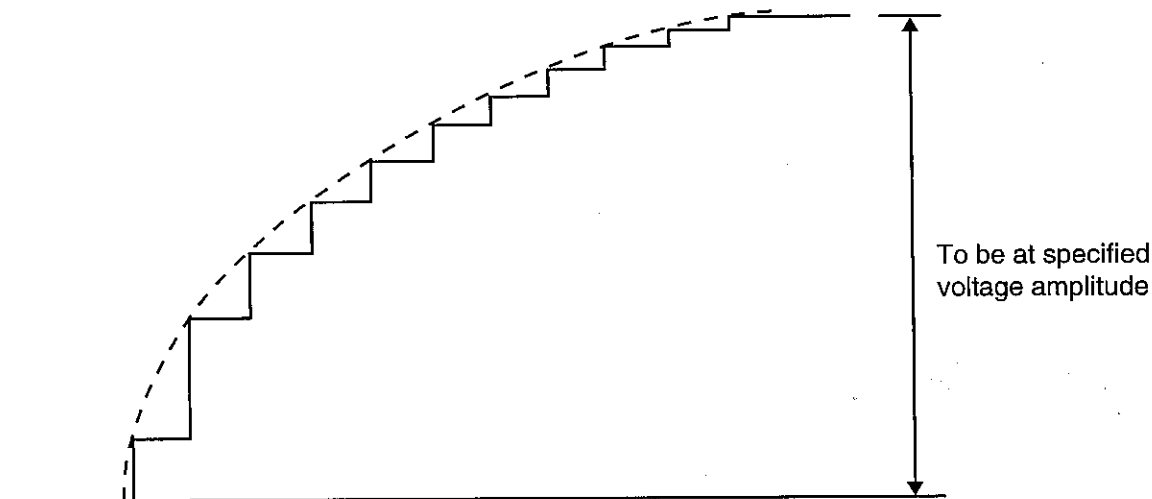


Layout

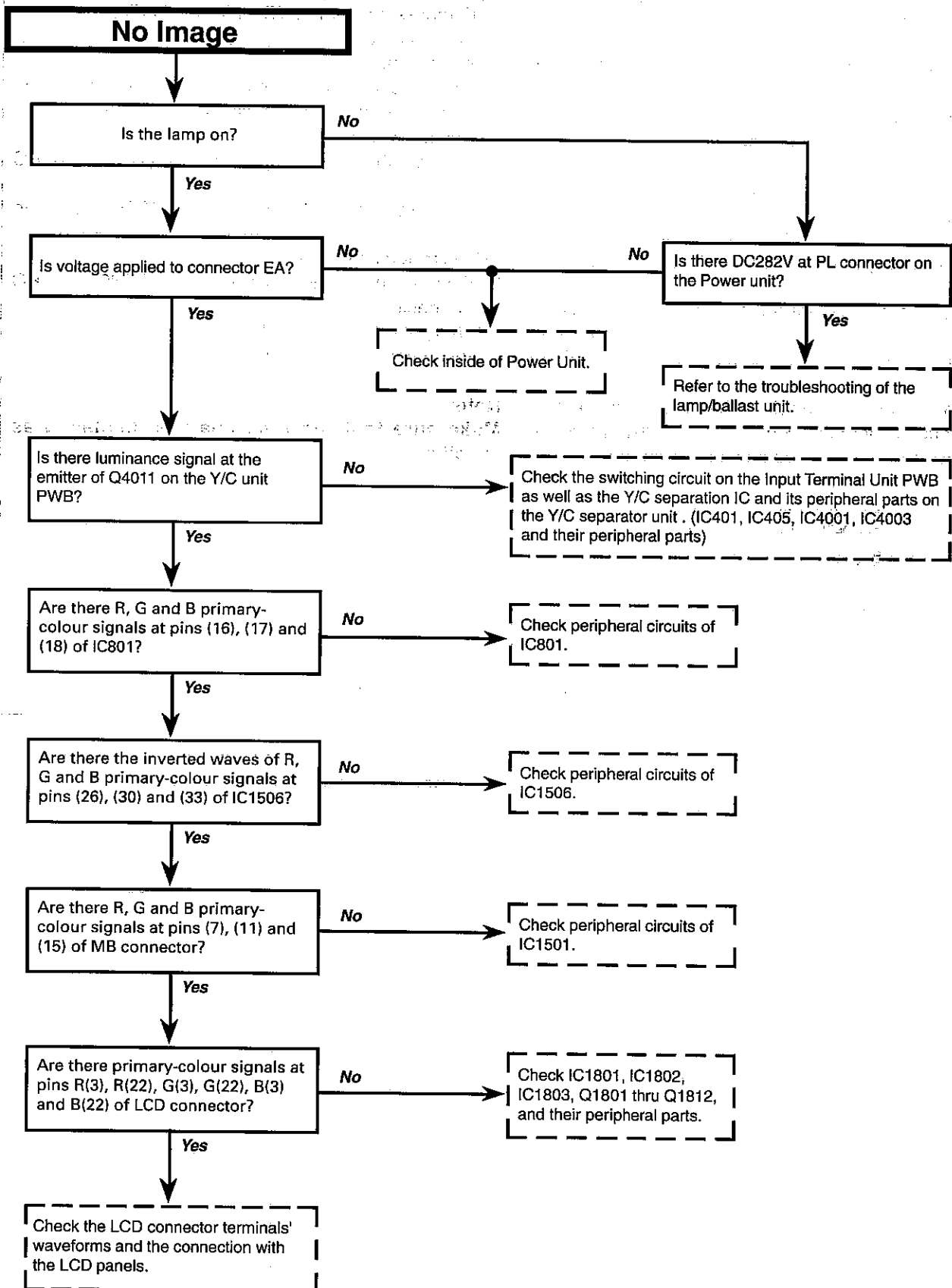


Adjustment Conditions	Adjustment Procedures
• Level and gain adjustment (analog-output computer)	
Measuring points Pin (9) of PC connector (green, brightness): TP8014 Pin (5) of PC connector (blue): TP8012 Pin (1) of PC connector (red): TP8010 Adjusting points R8120: Brightness adjustment R8135: B white level adjustment R8127: R white level adjustment Preparations 1. Set the filter switch (S8001) to the OFF position. 2. Set the analog/digital selector (S8002) to the ANALOG position. 3. Reset the adjustment level of the LCP. (Press the MENU button on the remote controller or the unit, select the RGB 2 ADJ. menu, and press the RESET key.) 4. Set all the above controls to the mechanical center. 5. Hook up the personal computer (PC-9801 or IBM-PC (VGA)) to the PC IN connector. Make the 16-tone chart appear on the screen.  6. Adjust the oscilloscope to 10 μs/div. and 0.2 V/div.(AC).	• Brightness adjustment (G white level adjustment) 1. Connect the oscilloscope to pin (9) (TP8014) of PC connector. 2. Using the brightness control (R8120), adjust the tone chart. Set maximum amplitude at 0.95 Vp-p. • B white level adjustment 3. Connect the oscilloscope to pin (5) (TP8012) of PC connector. 4. Using the B white level control (R8135), adjust the tone chart. Set maximum amplitude at 0.95 Vp-p. • R white level adjustment 5. Connect the oscilloscope to pin (1) (TP8010) of PC connector. 6. Using the R white level control (R8127), adjust the tone chart. Set maximum amplitude at 0.95 Vp-p. Note: Make sure that the tone chart is displayed as specified.
•Phase adjustment	
Adjusting point Phase control keys (PHASE< and PHASE>) Preparations 1. Set the filter switch (S8001) to the OFF position. 2. Command the personal computer to make a "H" letter appear over the screen.	•Adjustment 1. Adjust the <u>phase control keys (PHASE< and PHASE>)</u> so that the image be sharpest.

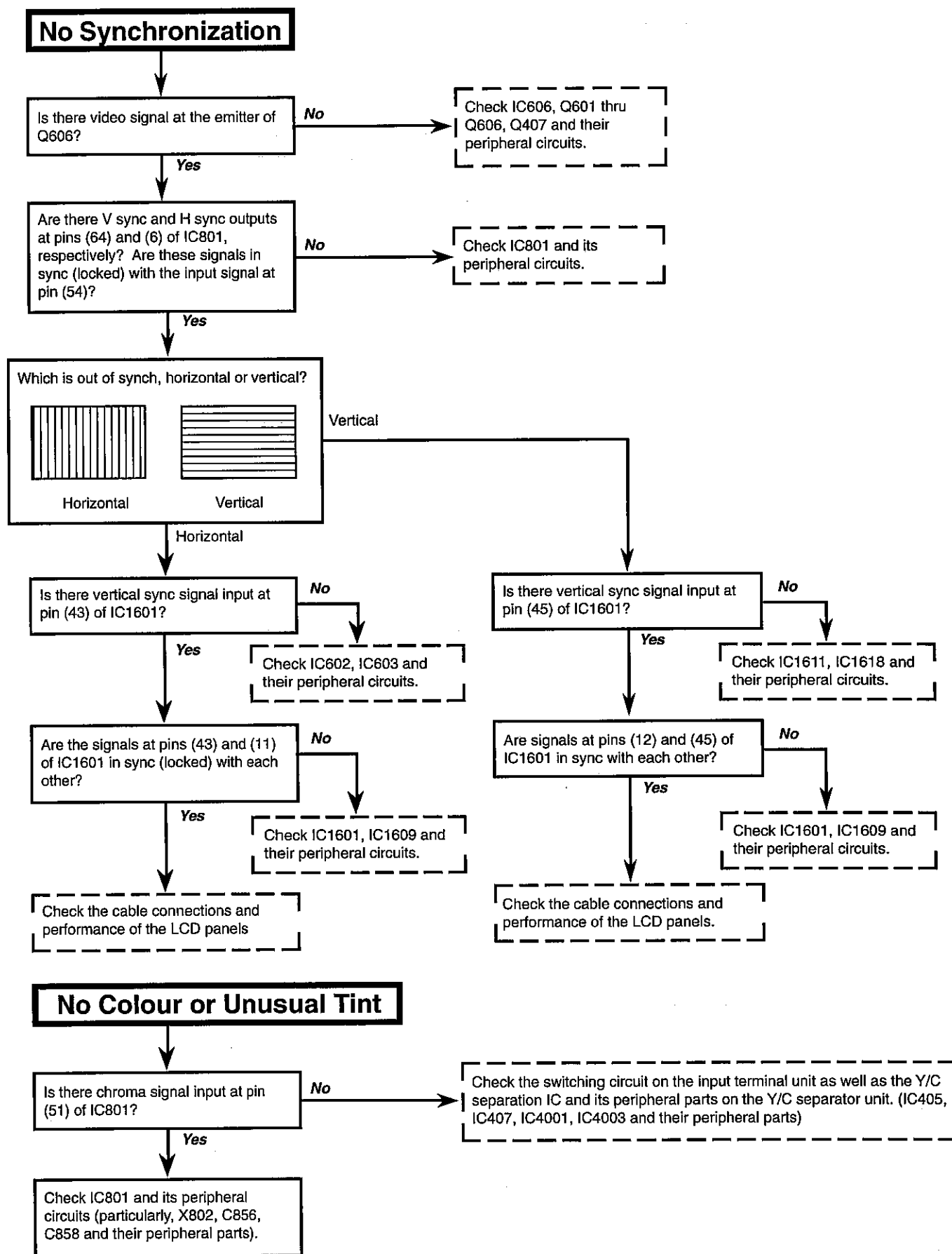
PC connector adjustment waveform



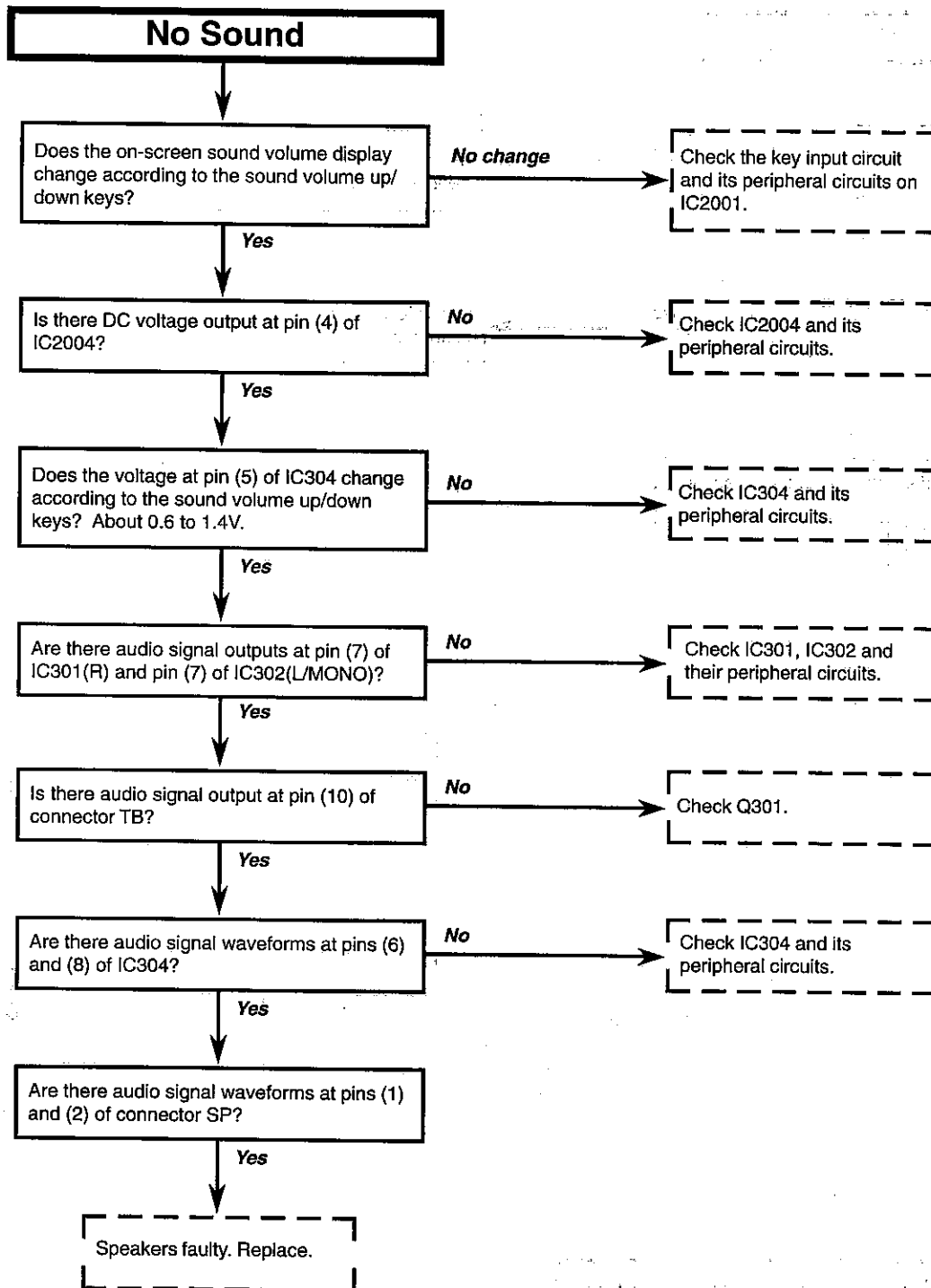
TROUBLE SHOOTING TABLE



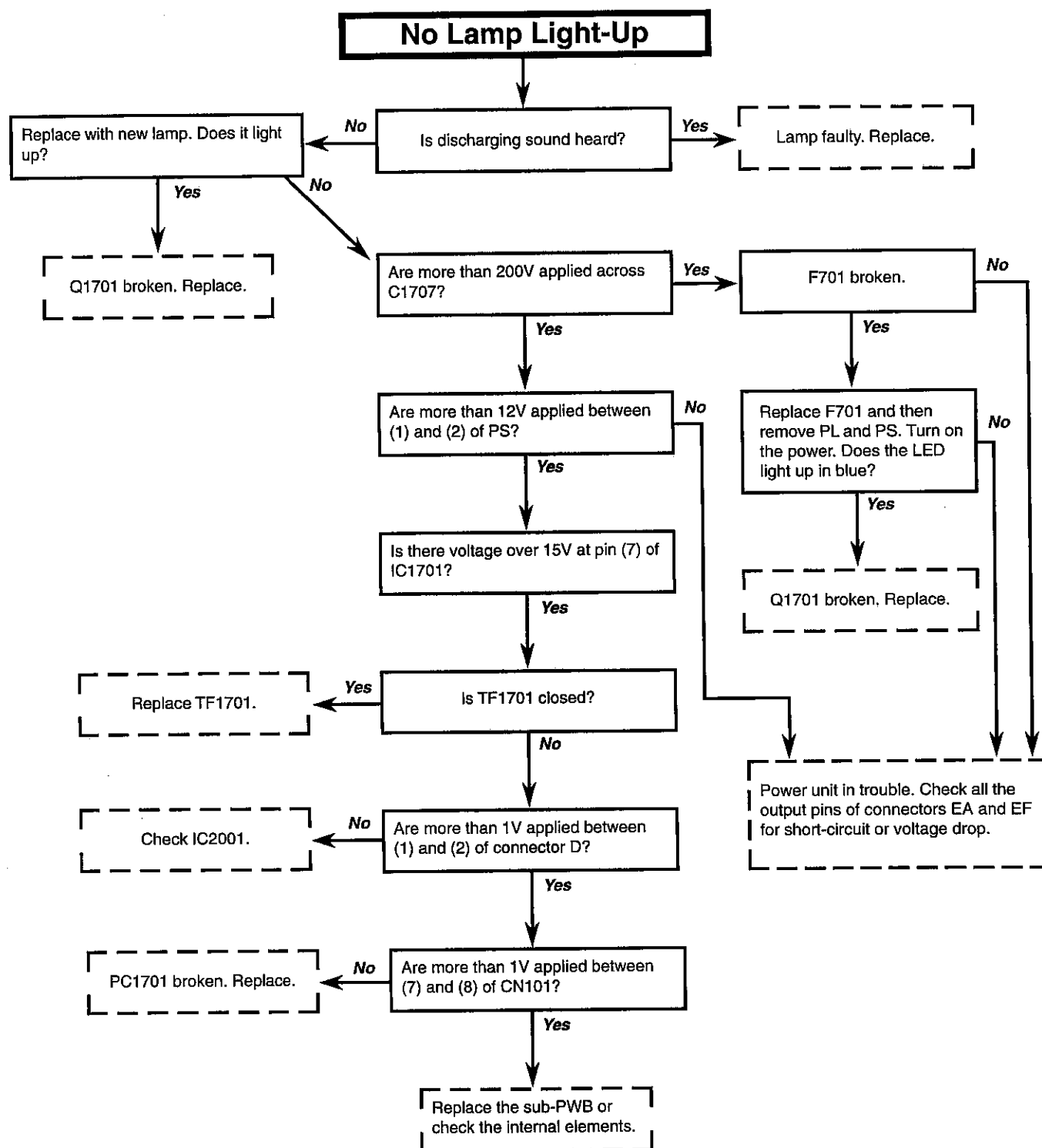
TROUBLE SHOOTING TABLE (Continued)



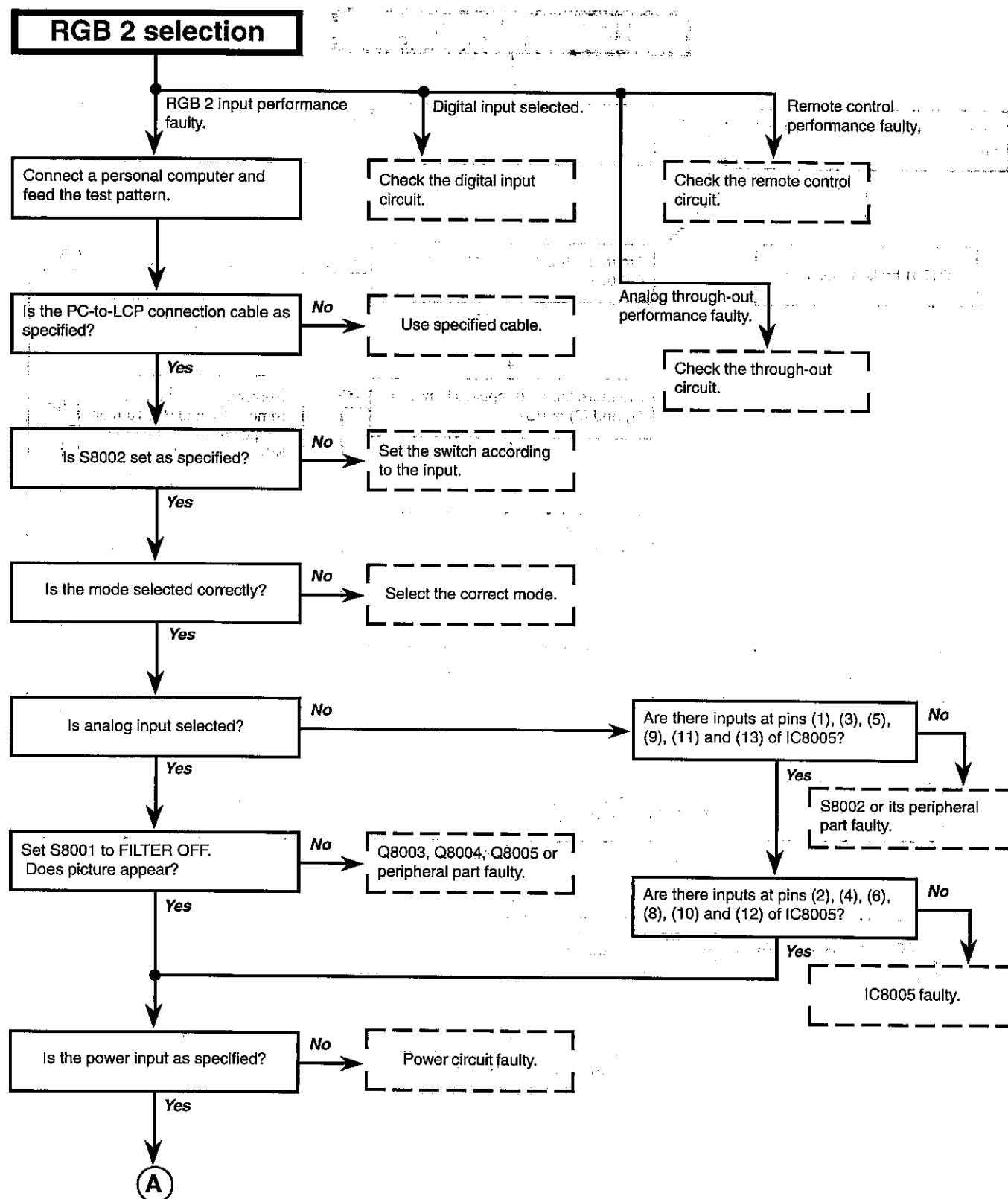
TROUBLE SHOOTING TABLE (Continued)



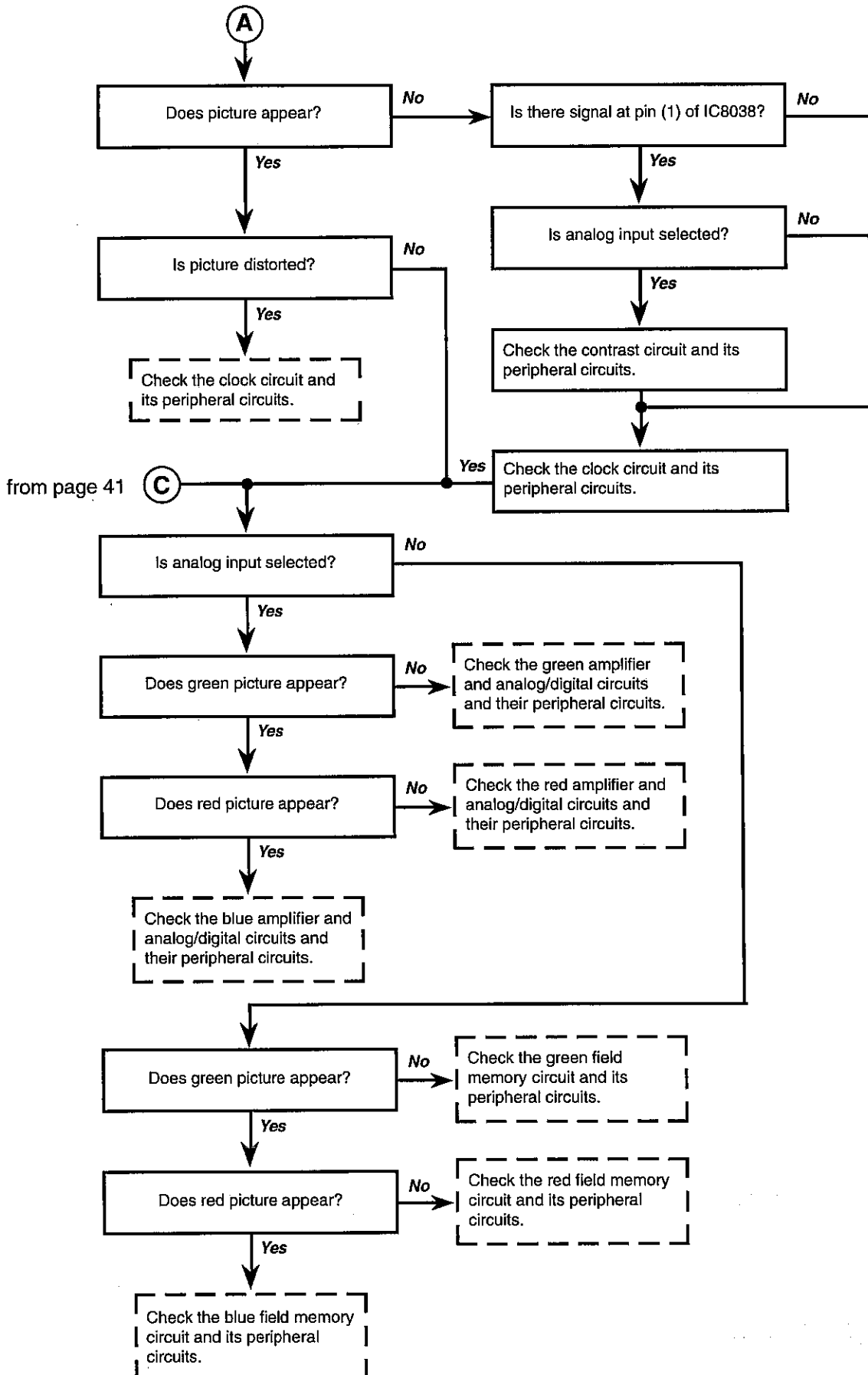
TROUBLE SHOOTING TABLE (Continued)



TROUBLESHOOTING FOR PC/IF UNIT

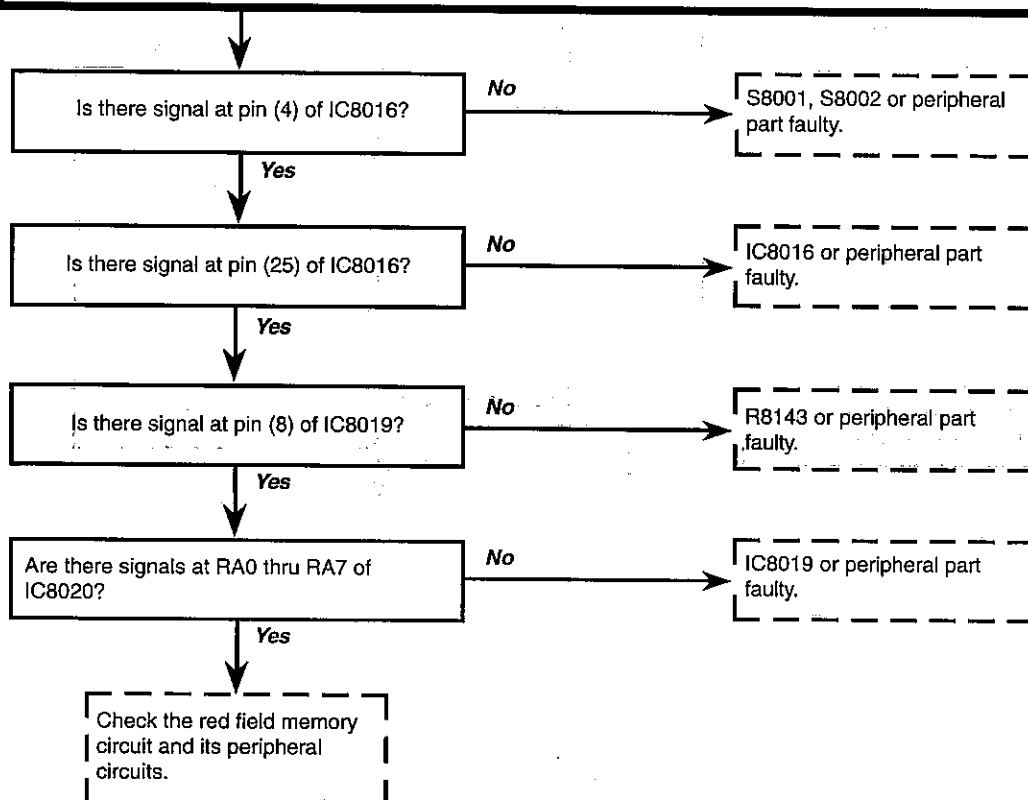


TROUBLESHOOTING FOR PC/IF UNIT (Continued)

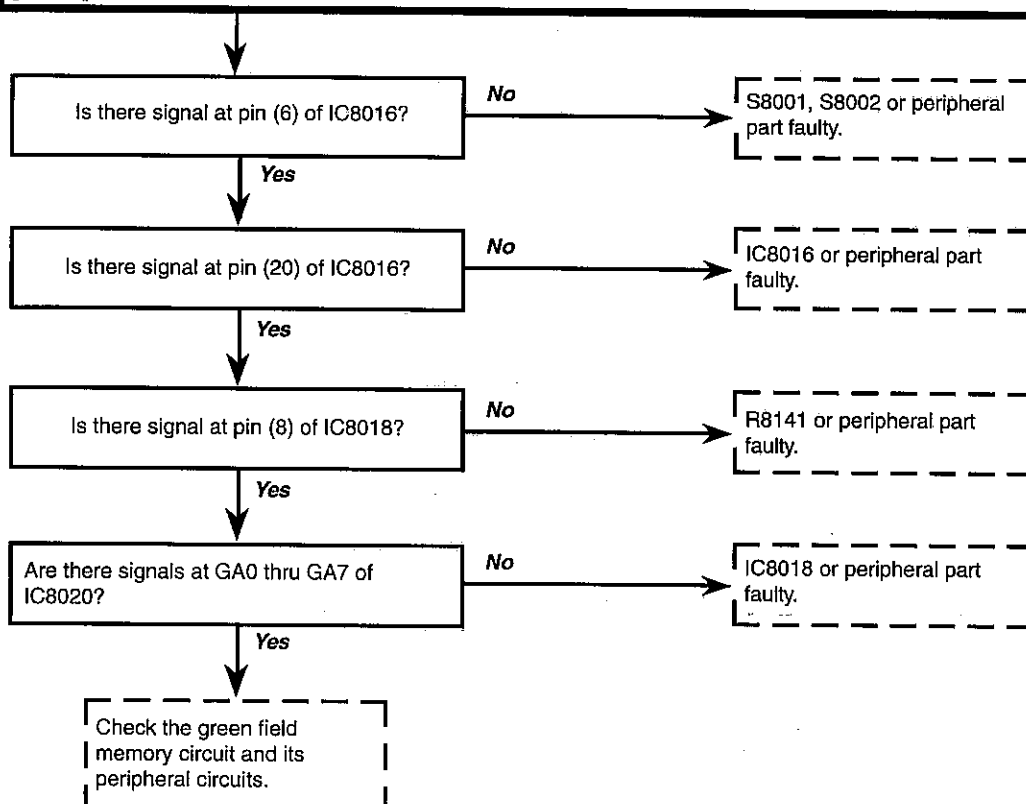


TROUBLE SHOOTING FOR PC/IF UNIT (Continued)

Check the red amplifier and analog/digital circuits and their peripheral circuits.

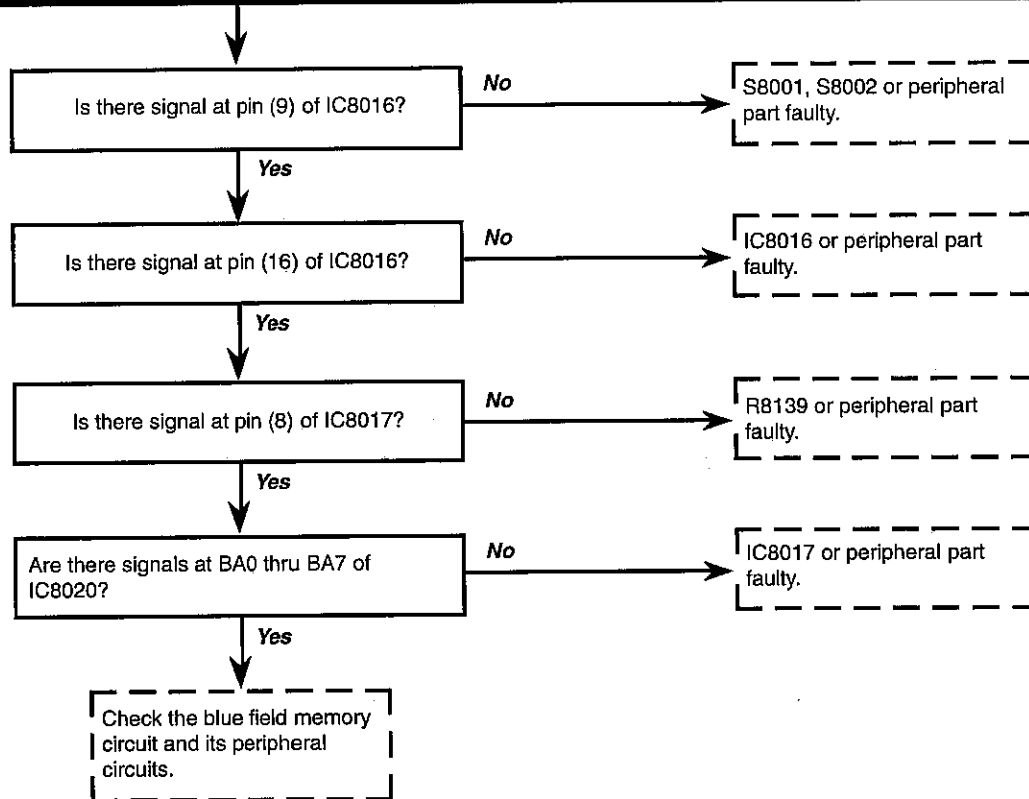


Check the green amplifier and analog/digital circuits and their peripheral circuits.



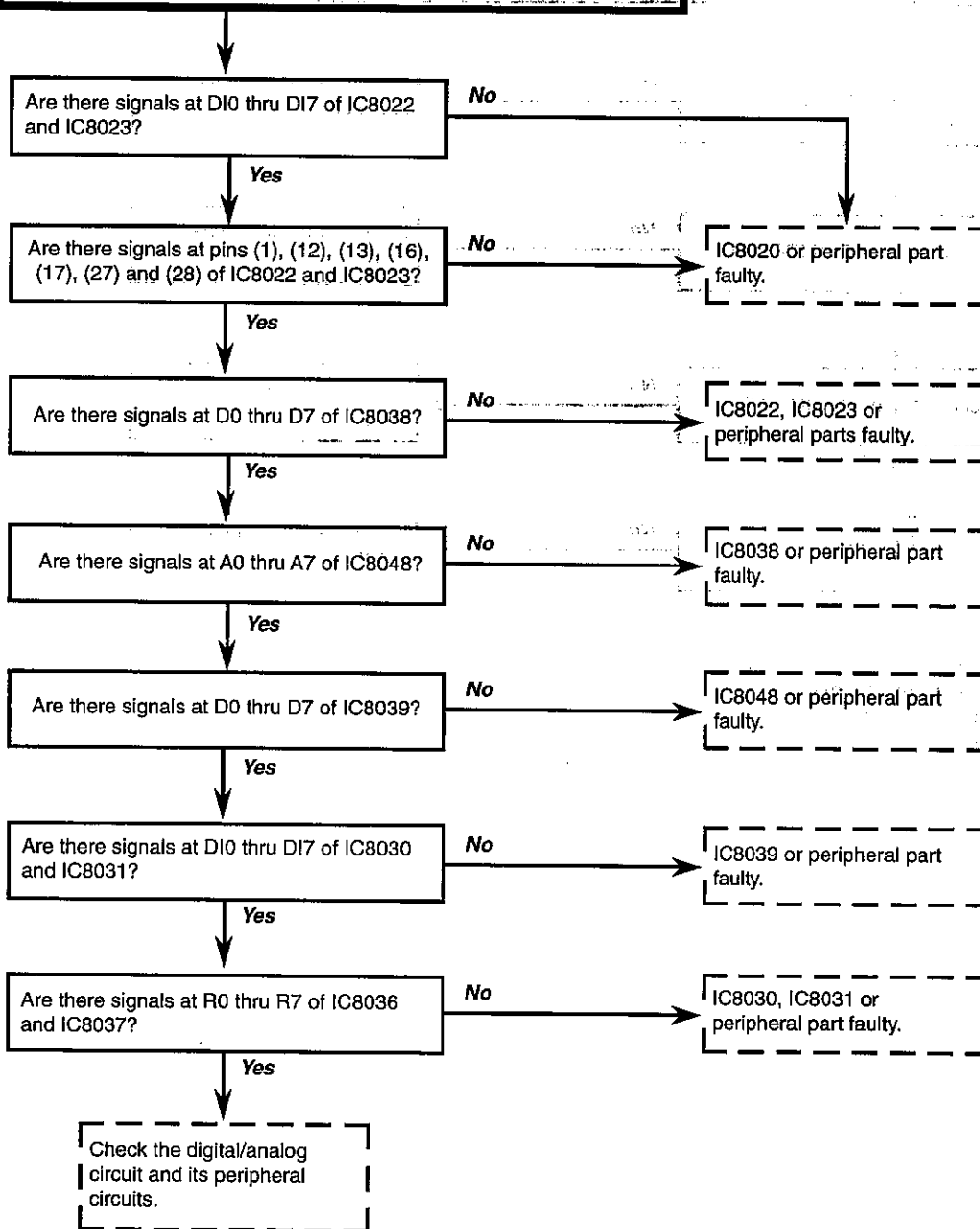
TROUBLE SHOOTING FOR PC/IF UNIT (Continued)

Check the blue amplifier and analog/digital circuits and their peripheral circuits.

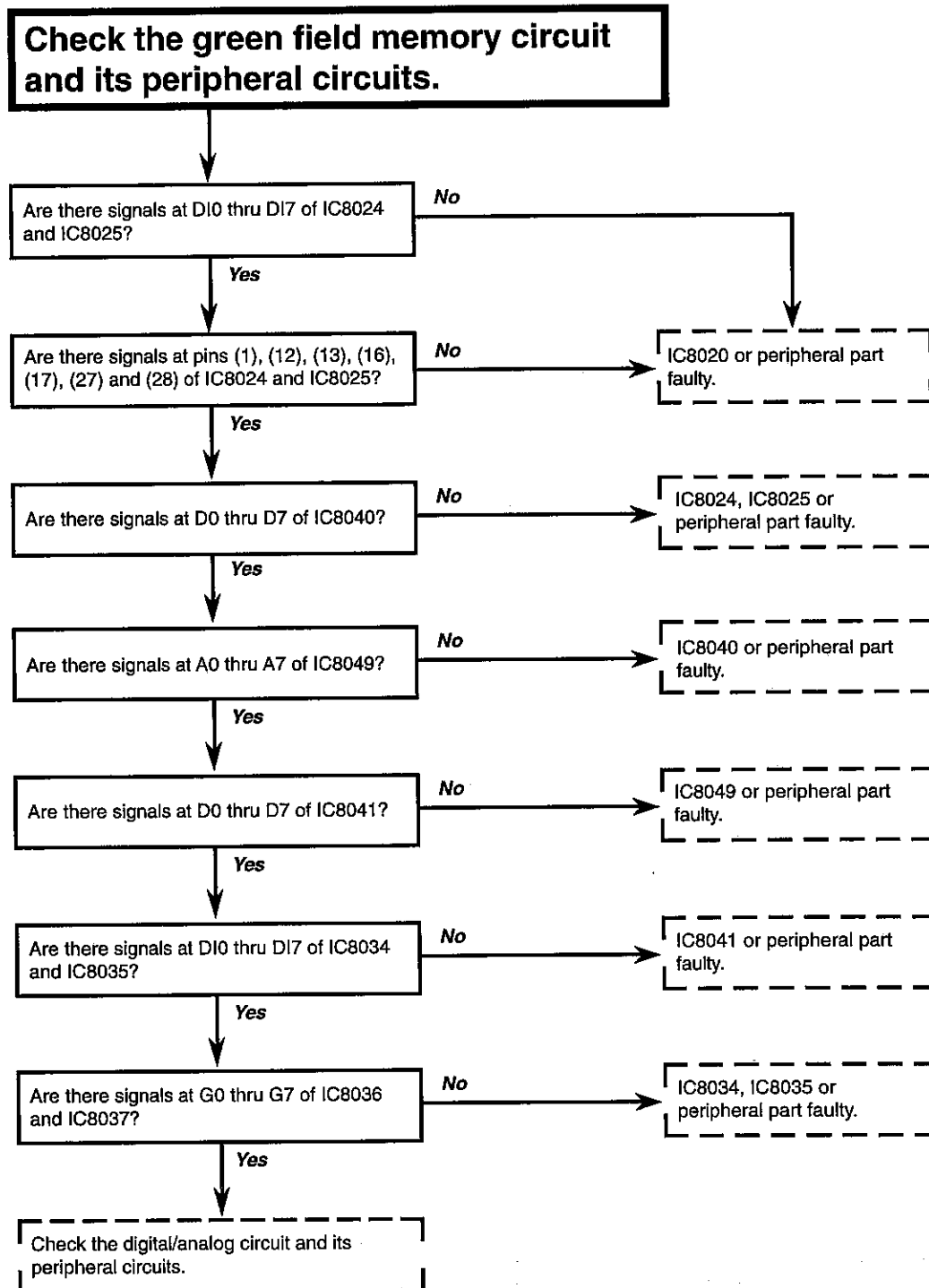


TROUBLE SHOOTING FOR PC/IF UNIT (Continued)

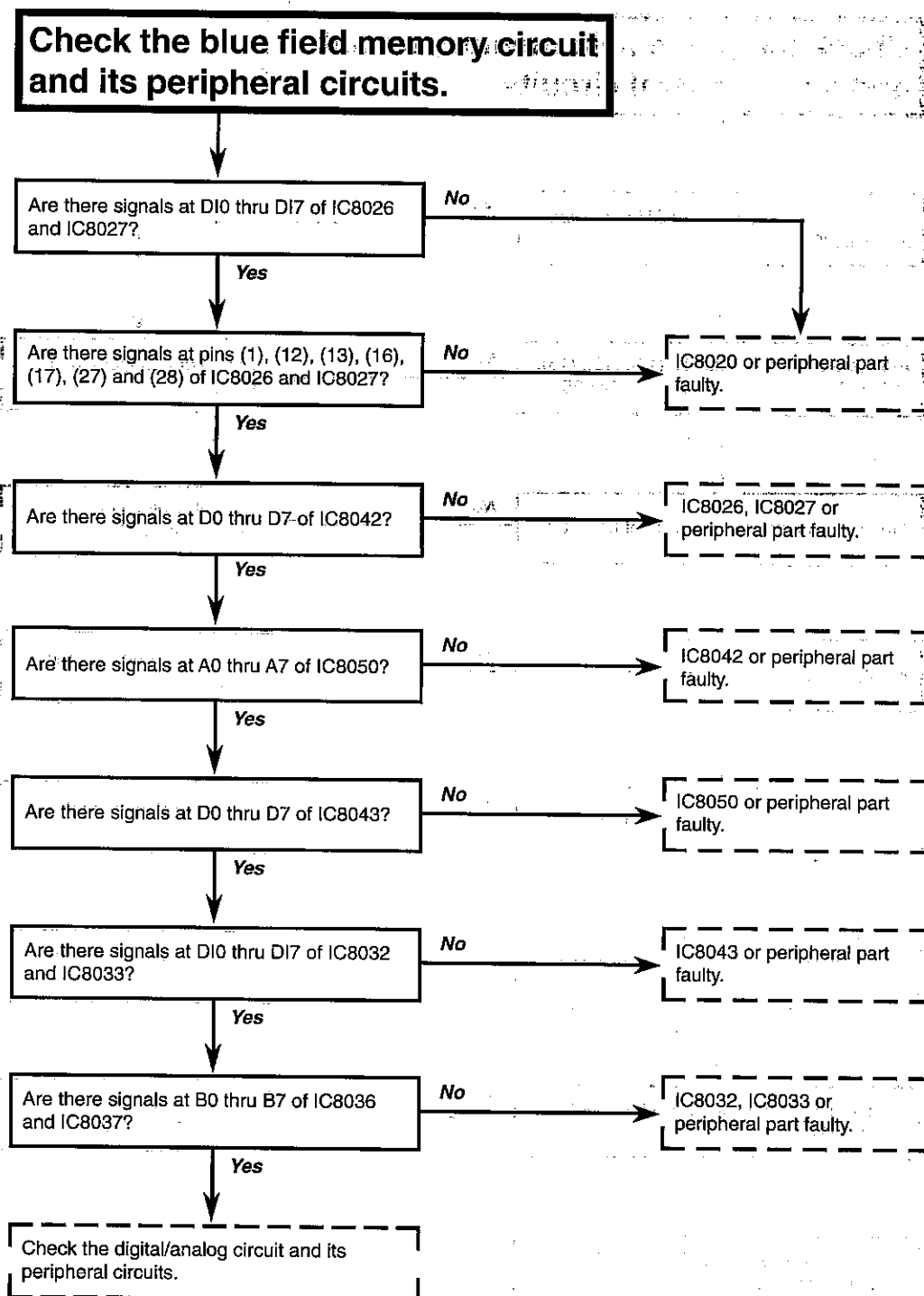
Check the red field memory circuit and its peripheral circuits.



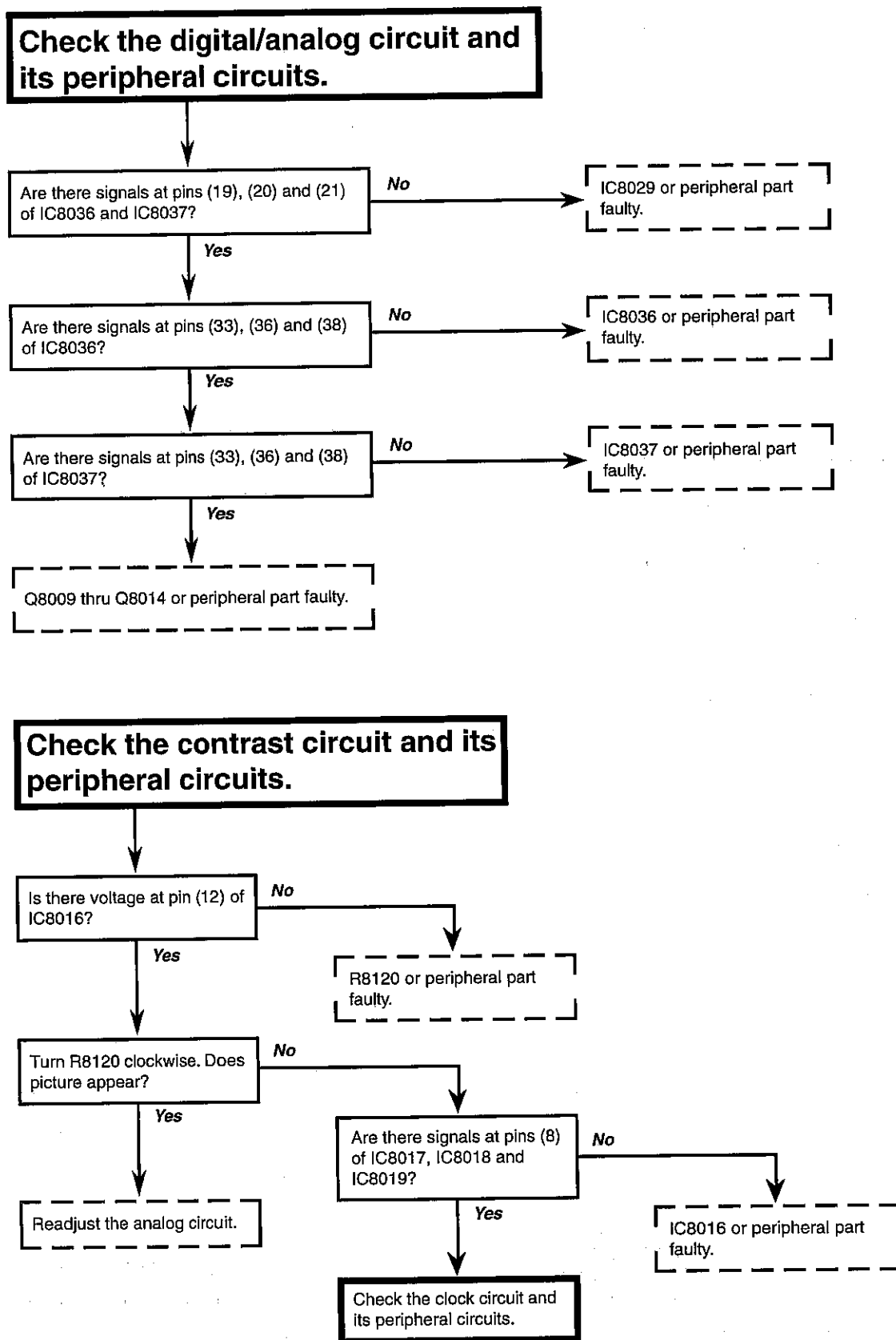
TROUBLE SHOOTING FOR PC/IF UNIT (Continued)



TROUBLE SHOOTING FOR PC/IF UNIT (Continued)

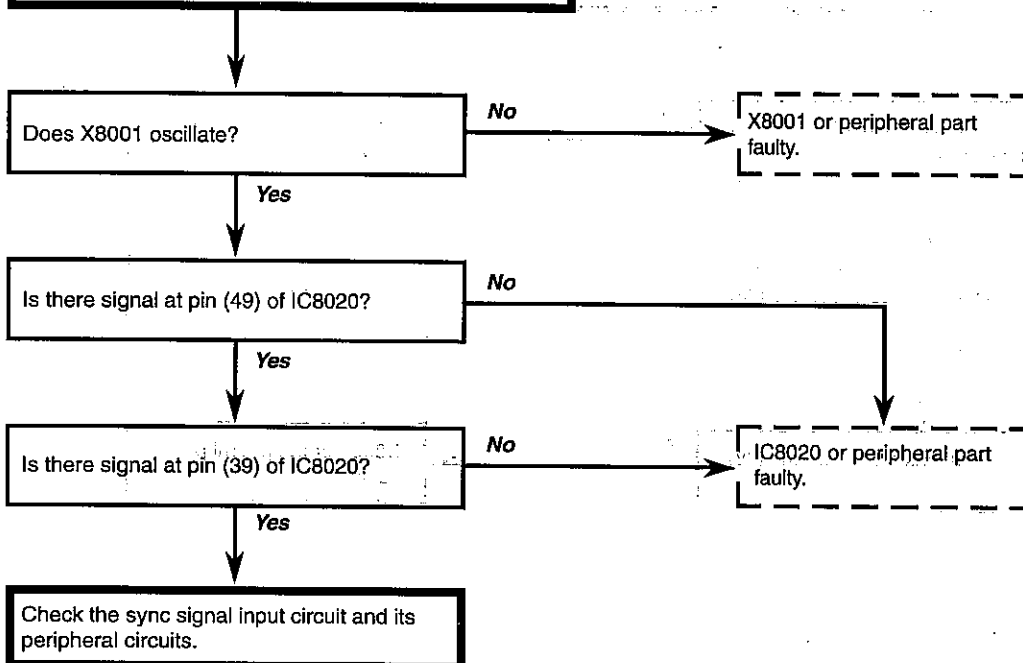


TROUBLE SHOOTING FOR PC/IF UNIT (Continued)

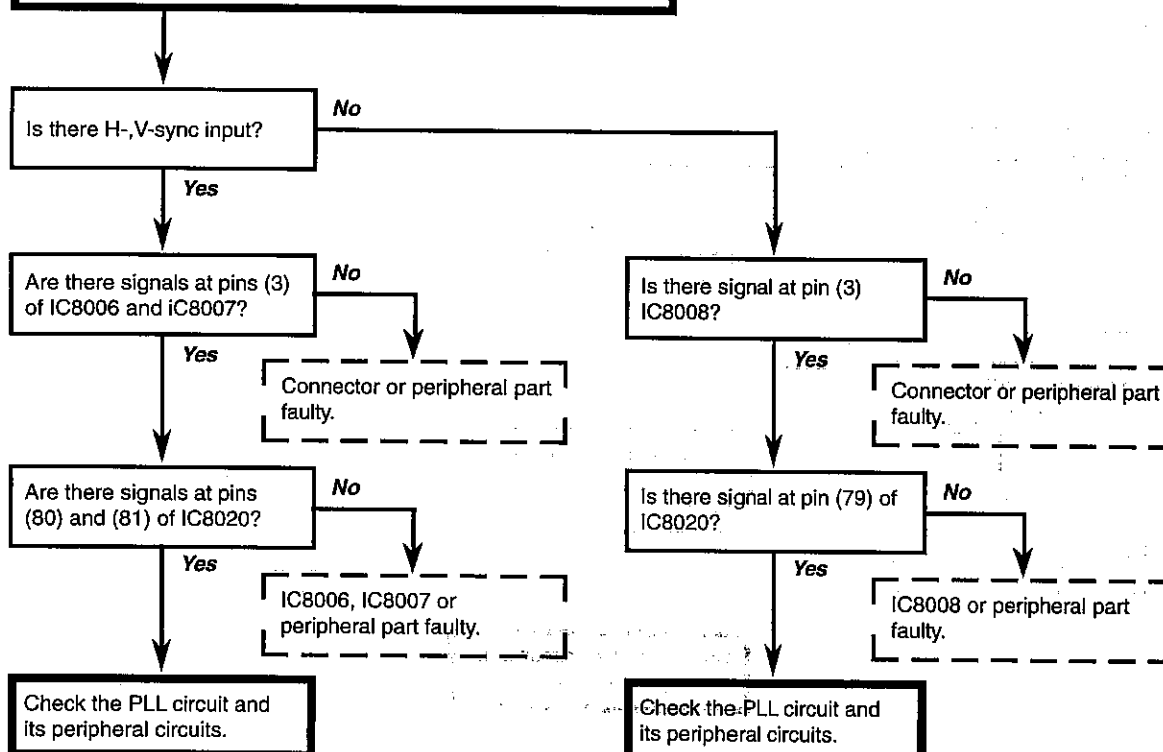


TROUBLESHOOTING FOR PC/IF UNIT (Continued)

Check the clock circuit and its peripheral circuits.

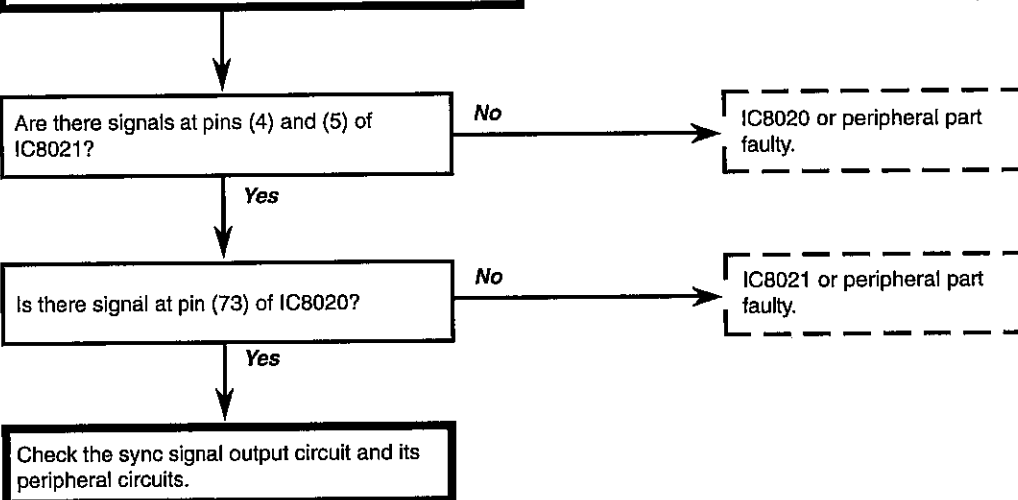


Check the sync signal input circuit and its peripheral circuits.

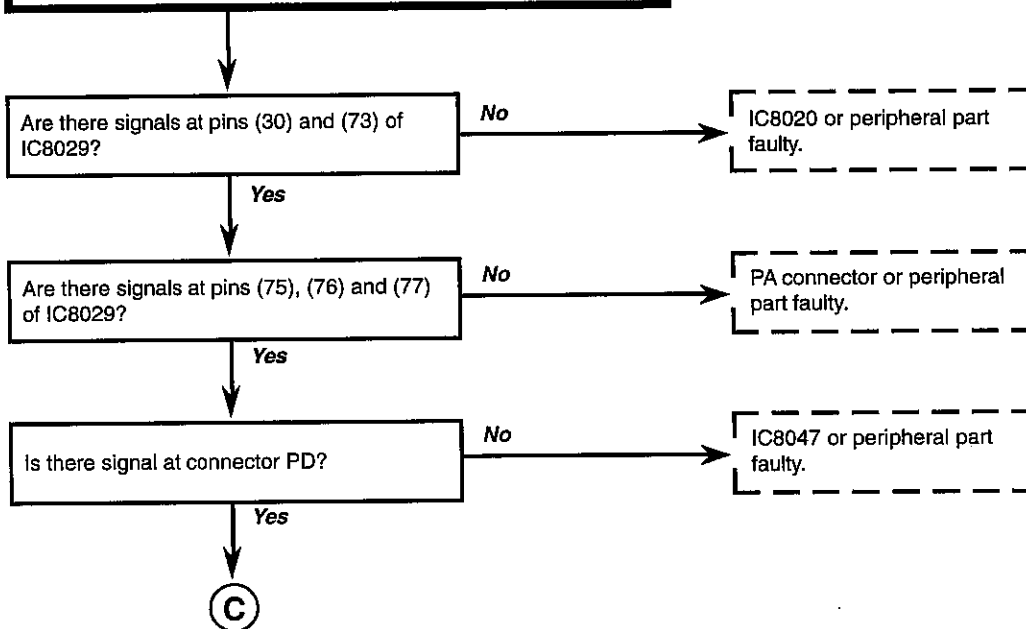


TROUBLESHOOTING FOR PC/IF UNIT (Continued)

Check the PLL circuit and its peripheral circuits.

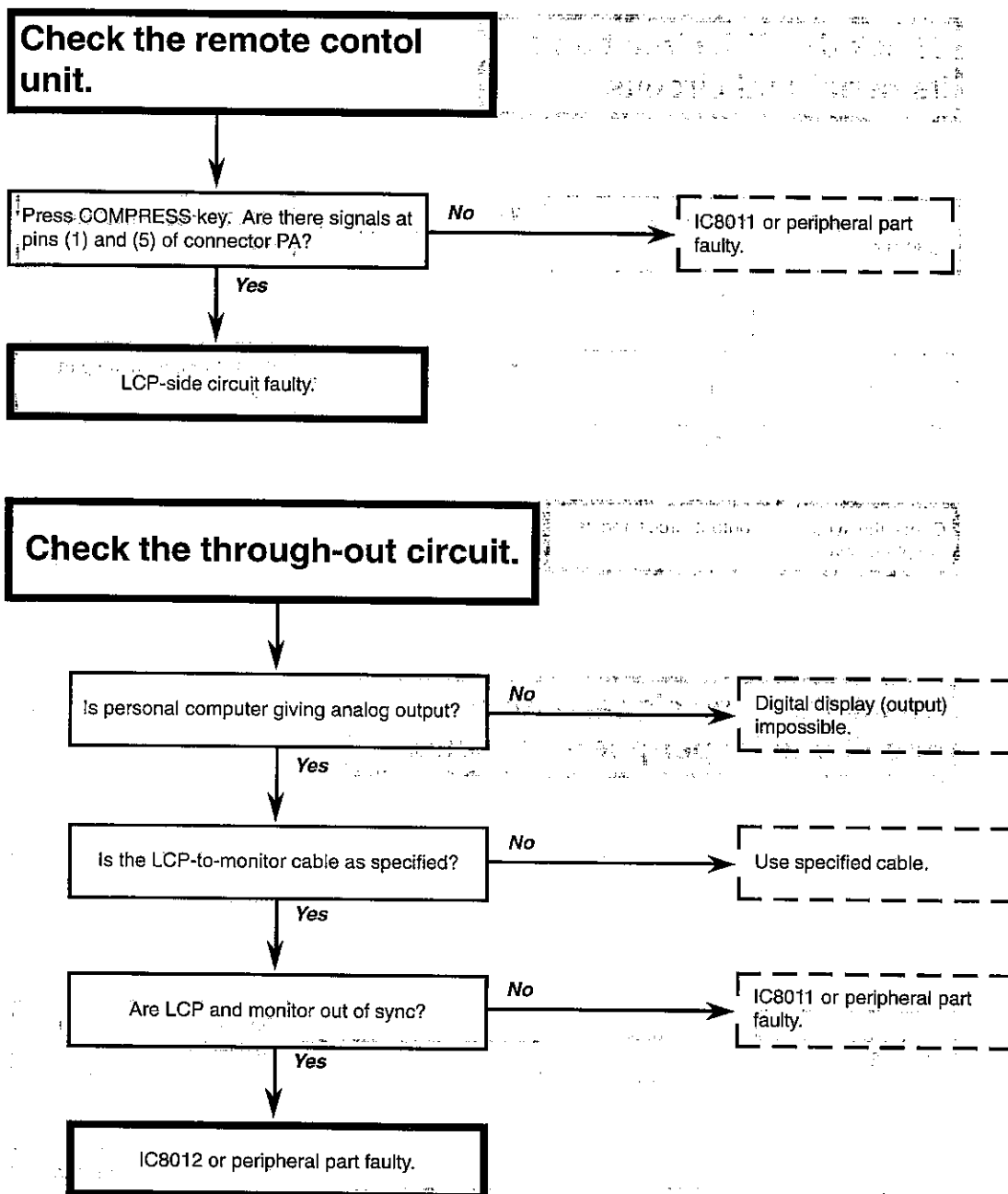


Check the sync signal output circuit and its peripheral circuits.



to page 33

TROUBLESHOOTING FOR PC/IF UNIT (Continued)



Technische Daten

Produkttyp	LCD-Projektor	
Modell	XG-3900E / E	
System	PAL-/SECAM-/NTSC 3.58-/NTSC 4.43-System	
Wiedergabeverfahren	3 LCD-Projektionspanele, dreifarbiges optisches Verschlußverfahren	
LCD-Projektionspanele	Panelgröße	3,0 Zoll (4,5 cm (H) × 6,2 cm (B))
	Wiedergabeverfahren	Durchlässige TN-Flüssigkristall-Panale
	Treiberverfahren	TFT (Dünnschichttransistor) Aktivmatrix-Treiberverfahren
	Anzahl der Bildpunkte	309.120 Bildpunkte × 3 Paneele
Objektiv	1 - 1,6 Zoomobjektiv, F=3,5 - 4,4 f=100 mm - 160 mm	
Projektionslampe	350 W Metallhalogen-Entladungslampe	
Kontrastverhältnis	100:1	
Videoeingangssignal (FBAS)	BNC-Anschluß: VIDEO, Composite Video, 1 Vs-s, negatives Sync.-Signal, 75 Ω terminiert RCA-Anschluß: AUDIO, 142 mVrms, mehr als 47 kΩ (Stereo)	
S-Videoeingangssignal	4-pol. Mini-DIN-Steckanschluß Y (Luminanz-Signal): 1 Vs-s, negatives Sync.-Signal, 75 Ω terminiert C (Chrominanz-Signal): Farbsynchronimpuls 0,286 Vs-s, 75 Ω terminiert	
Videoausgangssignal (Monitor)	BNC-Anschluß: VIDEO, Composite Video, 1 Vs-s, negatives Sync.-Signal, 75 Ω terminiert RCA-Anschluß: AUDIO, 142 mVrms, mehr als 47 kΩ (Stereo)	
Horizontale Auflösung	500 Fernsehzeilen (Videoeingang)	
Audioausgang	3 W (monaural)	
Computer-RGB-Eingangssignal	Videosignal	15-pol. Mini-D-Typ-Steckanschluß: Getrennter analoger RGB-Signaleingang: 0-0,7 Vs-s, positiv, 75 Ω terminiert RCA-Buchse: AUDIO, 142 Vrms, mehr als 47 kΩ (Stereo)
	Horizontales Sync.-Signal	TTL-Pegel (positiv oder negativ) oder Composite Sync.-Signal (nur Apple)
	Vertikales Sync.-Signal	
RGB-Videoeingangssignal	Videosignal	BNC-Anschluß: Getrennter analoger RGB-Signaleingang: 0-0,7 Vs-s, positiv, 75 Ω terminiert RCA-Buchse: AUDIO, 142 Vrms, mehr als 47 kΩ (Stereo)
	Composite Sync.-Signal	TTL-Pegel
Lautsprecher	3 Zoll (8 cm), rund	
Nennspannung	200 - 240 V Wechselstrom	
Nennfrequenz	50/60 Hz	
Nennaufnahme	470 W	
Betriebstemperatur	5°C - 40°C	
Lagertemperatur	-20°C - 55°C	
Gehäuse	Kunststoff	
Abmessungen (BxTxH)	550 × 471 × 230 mm (nur Projektor) 550 × 538 × 230 mm (einschl. Anschluß-Abdeckung)	
Gewicht	15,7 kg (nur Projektor) 16,0 kg (einschl. Anschluß-Abdeckung)	
Mitgeliefertes Zubehör	Fernbedienung, vier AA-Batterien, Objektivkappe (installiert), Schutzabdeckung für erhöhte Aufstellung, vier Kabelschutz-Stöpsel, Display-Aufkleber für umgekehrte Installation, Ersatz-Luftfilter, Anschluß-Abdeckung, VGA-Kabel, zwei BNC-RCA-Adapter, Mac/VGA-Adapter.	
Sonderzubehör	Fernbedienung, Luftfilter, VGA-Kabel, Mac/VGA-Adapter	

Dieser Projektor ist mit LCD (Flüssigkristallanzeige)-Projektionspaneelen ausgestattet. Diese neuartigen Projektionspaneele enthalten TFT's (Dünnschicht-Transistoren) mit insgesamt 309.120 Bildpunkten (xRGB). Bei allen technologisch fortschrittlichen elektronischen Geräten, z.B. Großbild-Fernsehern, Videosystemen oder Videokameras, sind bestimmte Toleranzgrenzen für die Funktionen gegeben.
Die von Sharp akzeptierte Toleranzgrenze erlaubt insgesamt sechs (6) inaktive TFTs (einschließlich schwarzer Flecken), die als beleuchtete Punkte auf der Bildwand wiedergegeben werden.
Dies hat keinen Einfluß auf die Bildqualität und die Lebenserwartung des Gerätes.

*Änderungen der technischen Daten vorbehalten.

HINWEIS FÜR DAS WARTUNGSPERSONAL

ACHTUNG: UV-STRAHLUNG

Die Lichtquelle im LCD-Projektor, eine Metall-Halogen-Lampe, gibt eine geringe UV-Strahlung ab.

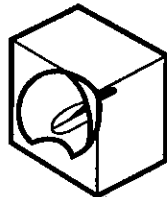
DIREKTE BESTRAHLUNG AUF AUGEN UND HAUT MUSS VERMIEDEN WERDEN.

Zur Gewährleistung der Sicherheit muß folgendes beachtet werden:

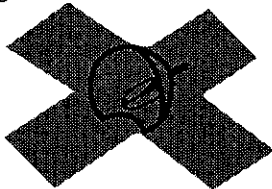
1. Bei Arbeiten am Projektor bei eingeschalteter Lampe und abgenommenem oberen Gehäuse muß unbedingt eine Sonnenbrille getragen werden.



2. Die Lampe darf nicht außerhalb des Lampengehäuses eingeschaltet werden.



3. Betrieb für länger als 2 Stunden bei abgenommenem Gehäuse ist nicht zulässig.



Zur Beachtung bei UV-Strahlung und Mitteldruck-Lampen

1. Vor dem Auswechseln der Lampe muß der Netzstecker gezogen werden.
2. Vor Durchführung von Wartungsarbeiten muß das Gerät eine Stunde abkühlen.
3. Die Lampe darf nur gegen eine der gleichen Art ausgetauscht werden. Typ CLMPF0034DE07, bemessen für 65 V/350 W.
4. Die Lampe gibt eine geringe UV-Strahlung ab, daher muß direkter Augenkontakt vermieden werden.
5. Die Mitteldruck-Lampe weist ein Explosionsrisiko auf. Daher müssen die nachstehenden Installationsanweisungen beachtet werden, und die Lampe muß vorsichtig behandelt werden.

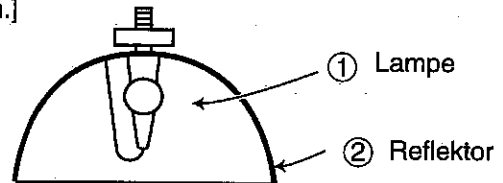
Auswechseln der Lampe

Hinweis:

Da die Lampe während des Betriebs sehr heiß wird, sollte die Lampe erst ausgewechselt werden, nachdem das Gerät mindestens eine Stunde ausgeschaltet war, damit die Lampe ausreichend abkühlen kann.

Beim Installieren der neuen Lampe muß darauf geachtet werden, die Lampe selbst (Glaskolben) nicht zu berühren. Vielmehr muß die Lampe am Reflektor ② gehalten werden.

[Es darf nur ein Original-Ersatzteil verwendet werden.]



GEFAHR! — Niemals die Spannungsversorgung einschalten, ohne daß eine Lampe vorhanden ist, um elektrische Schläge und Schäden am Gerät zu vermeiden, da der Stabilisator anfangs hohe Spannungen erzeugt.

Da eine geringe UV-Strahlung aus einer Öffnung zwischen der Schachtabdeckung und dem Lampengehäuse austritt, sollte der Objektivdeckel bei Wartungsarbeiten auf die Öffnung gesetzt werden, um die Bestrahlung von Augen und Haut zu vermeiden (Abb. 1).

Hinweis: Besorgen Sie sich einen Objektivdeckel, bevor Sie Arbeiten an einem Modelle XG-3 900E/E durchführen, das keinen Objektivdeckel aufweist.

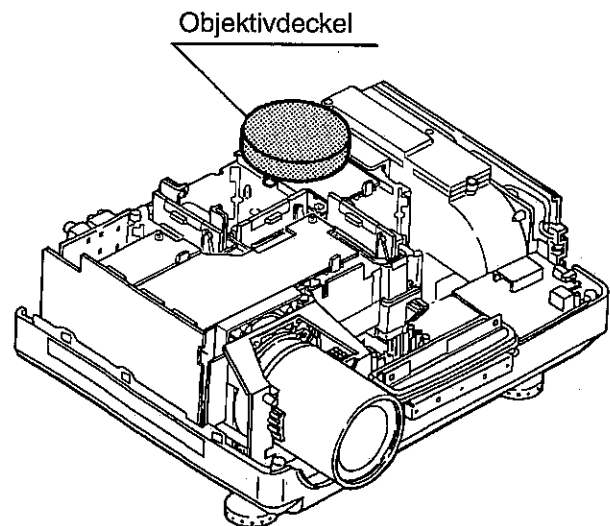
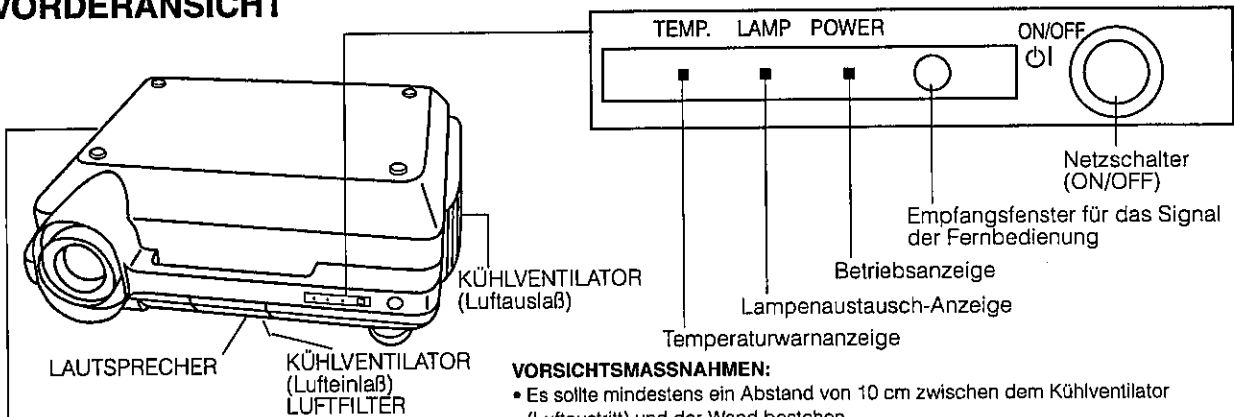


Abbildung 1.

Lage der Bedienelemente

VORDERANSICHT



BEDIENFELD AUF DER SEITE DES PROJEKTORS

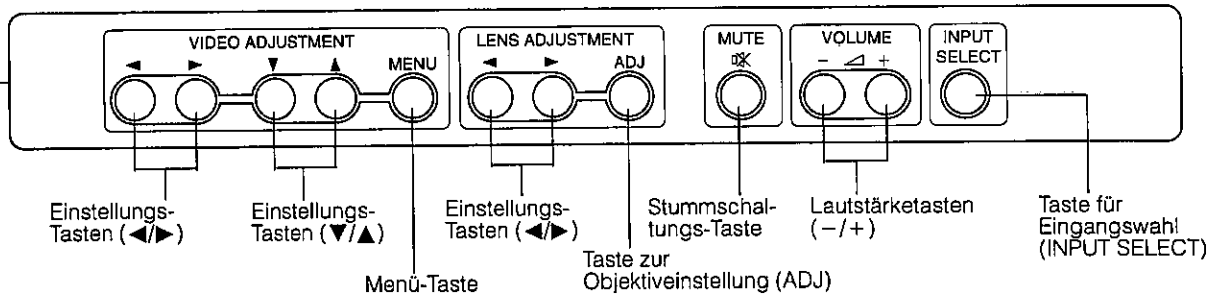
Leuchtstoff-Display

Zur Verbesserung der Ablesbarkeit sind die auf der rechten Seite befindlichen Bedienelemente mit einem Leuchtstoff-Display ausgestattet, das nach Einwirkung des Umgebungslichts im Dunkeln nachleuchtet.

(Nachleuchtstärke)

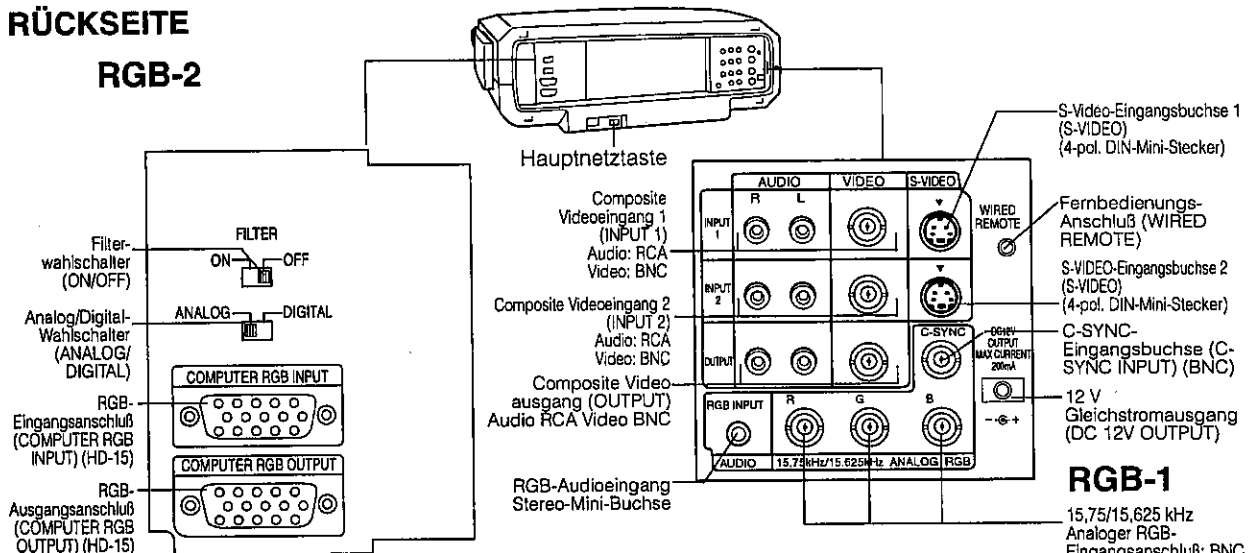
Nach ca. 10 Min. unter Sonnen- oder Kunstlicht mit 500 Lux Lichtstärke leuchtet das Display etwa 1 Stunde nach.

(Hinweis: 500 Lux entspricht der Lichtstärke in ca. 1 - 1,5 Meter Abstand unter einer 40-Watt-Leuchtstoffröhre)



RÜCKSEITE

RGB-2



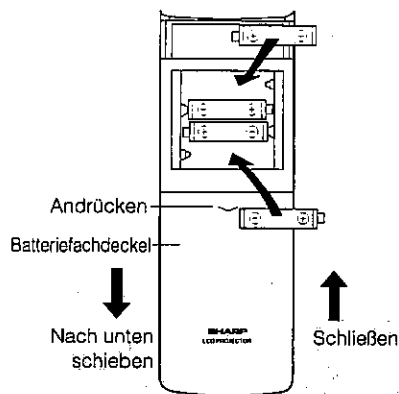
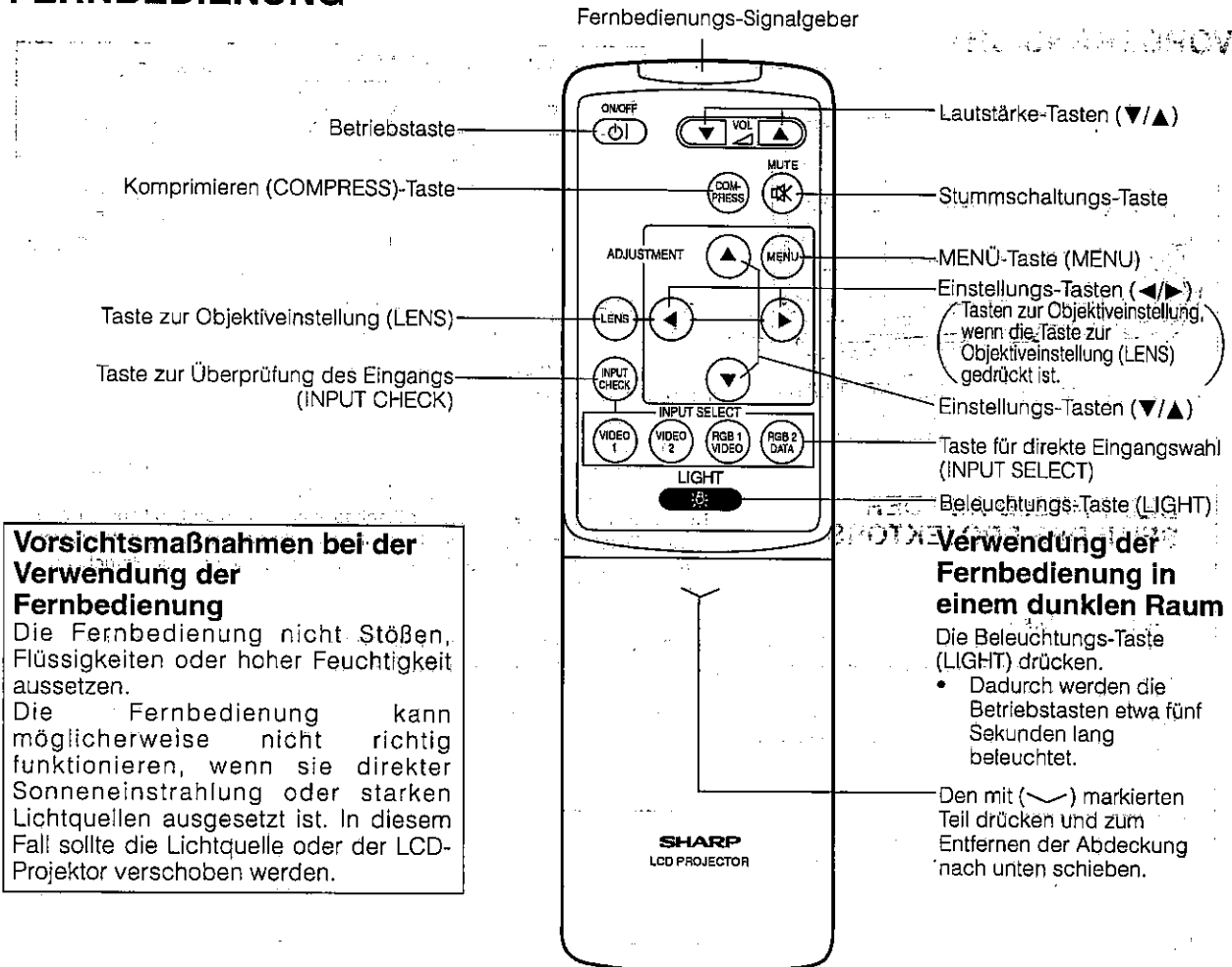
Hinweis:

- Wenn 200 mA oder mehr am 12 V Gleichstromausgang (DC 12V OUTPUT) abgenommen wird, schaltet eine Schutzschaltung automatisch den Projektor aus und stellt ihn auf die Bereitschafts-Betriebsart ein.

Fernbedienter Betrieb

SHARP LCD PROJECTOR

FERNBEDIENUNG



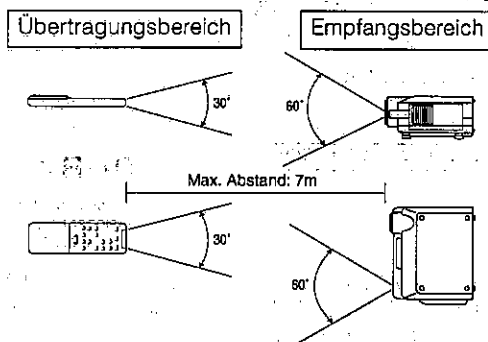
Einsetzen der Batterien

Die Batteriefachabdeckung wie gezeigt entfernen, vier Batterien (Größe AA) einsetzen und sicherstellen, daß die Polarität den Markierungen (+) und (-) im Batteriefach entspricht.

HINWEISE:

Eine falsche Verwendung kann die Batterien zum Auslaufen oder Explodieren bringen.

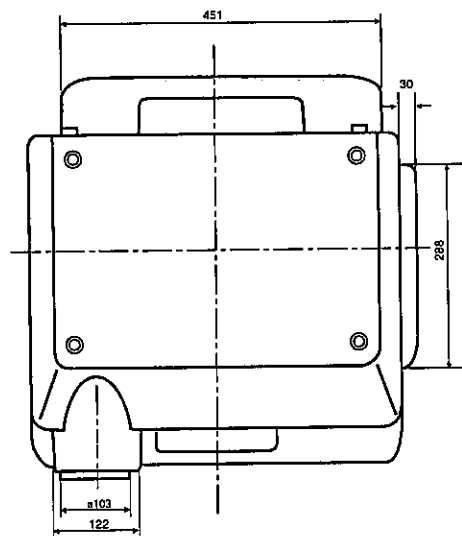
- Die Batterien unter Beachtung der (+) und (-) Pole wie gezeigt richtig einsetzen.
- Die Batterien aus der Fernbedienung entnehmen, wenn sie für längere Zeit nicht verwendet wird.
- Die Batterien immer sauber halten.
- Unterschiedliche Batteriearten nicht zusammen verwenden. Die Lebensdauer der neuen Batterien wird dadurch verkürzt und die alten Batterien können auslaufen.
- Verbrauchte Batterien sollten sofort entnommen werden, um Auslaufen und Beschädigungen zu vermeiden. Ausgelaufene Batterieflüssigkeit kann zu Hautirritationen führen. Ausgelaufene Batterieflüssigkeit mit einem Tuch entfernen.
- Wegen unterschiedlicher Lagerbedingungen können die mitgelieferten Batterien früher als angegeben verbraucht sein. Verbrauchte Batterien sollten so schnell wie möglich durch neue ausgetauscht werden.



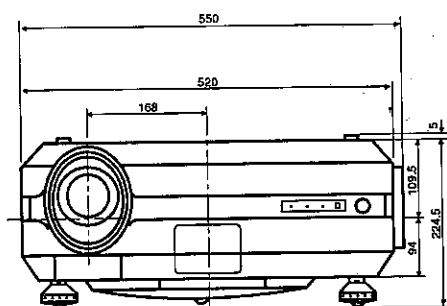
Verwendung der Fernbedienung

Die Fernbedienung wie gezeigt verwenden.

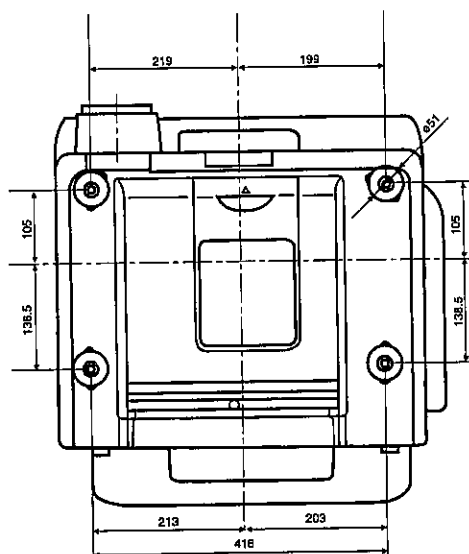
Abmessungen



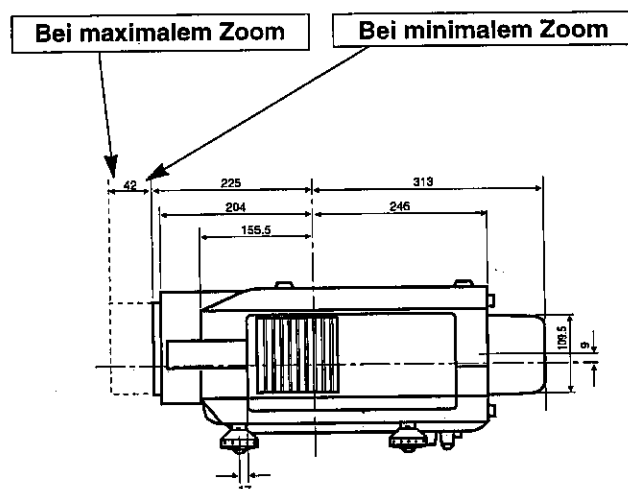
Ansicht von oben



Ansicht von vorne



Ansicht von unten



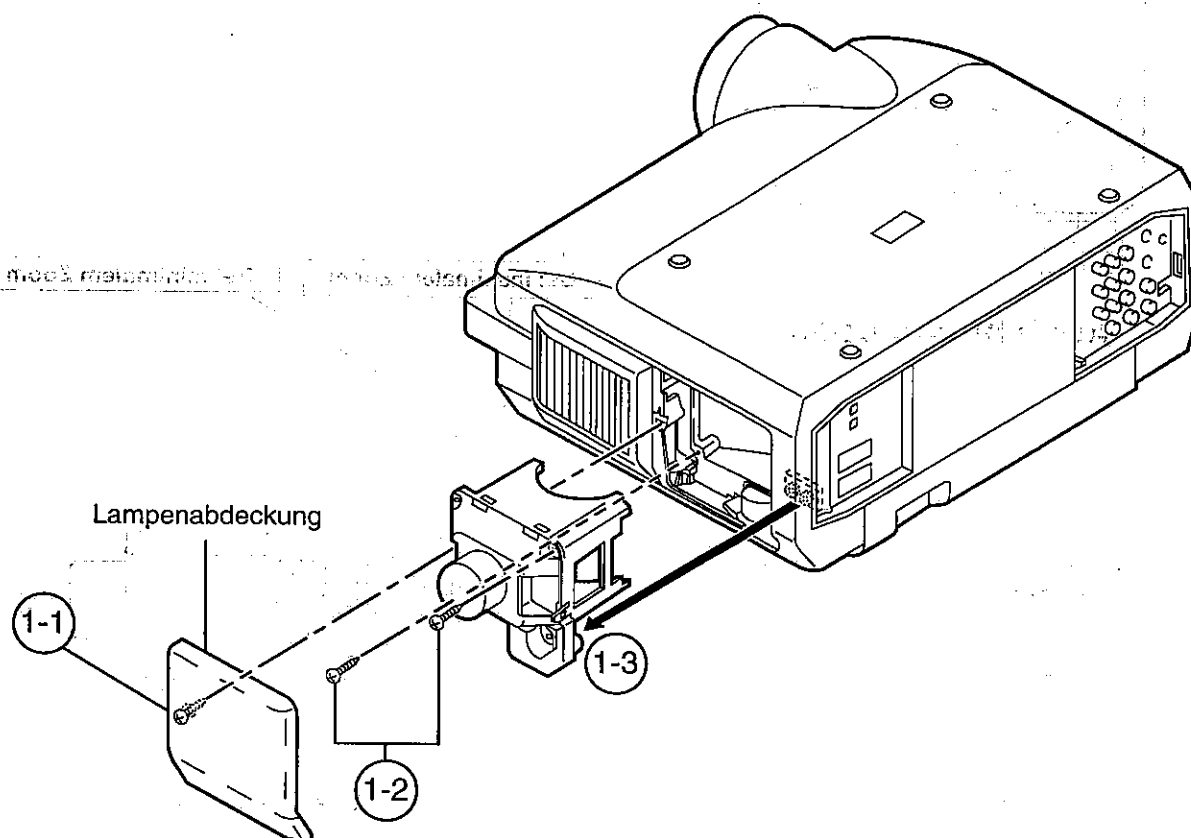
Seitenansicht

[Einheit: mm]

ENTFERNEN DER WICHTIGSTEN TEILE

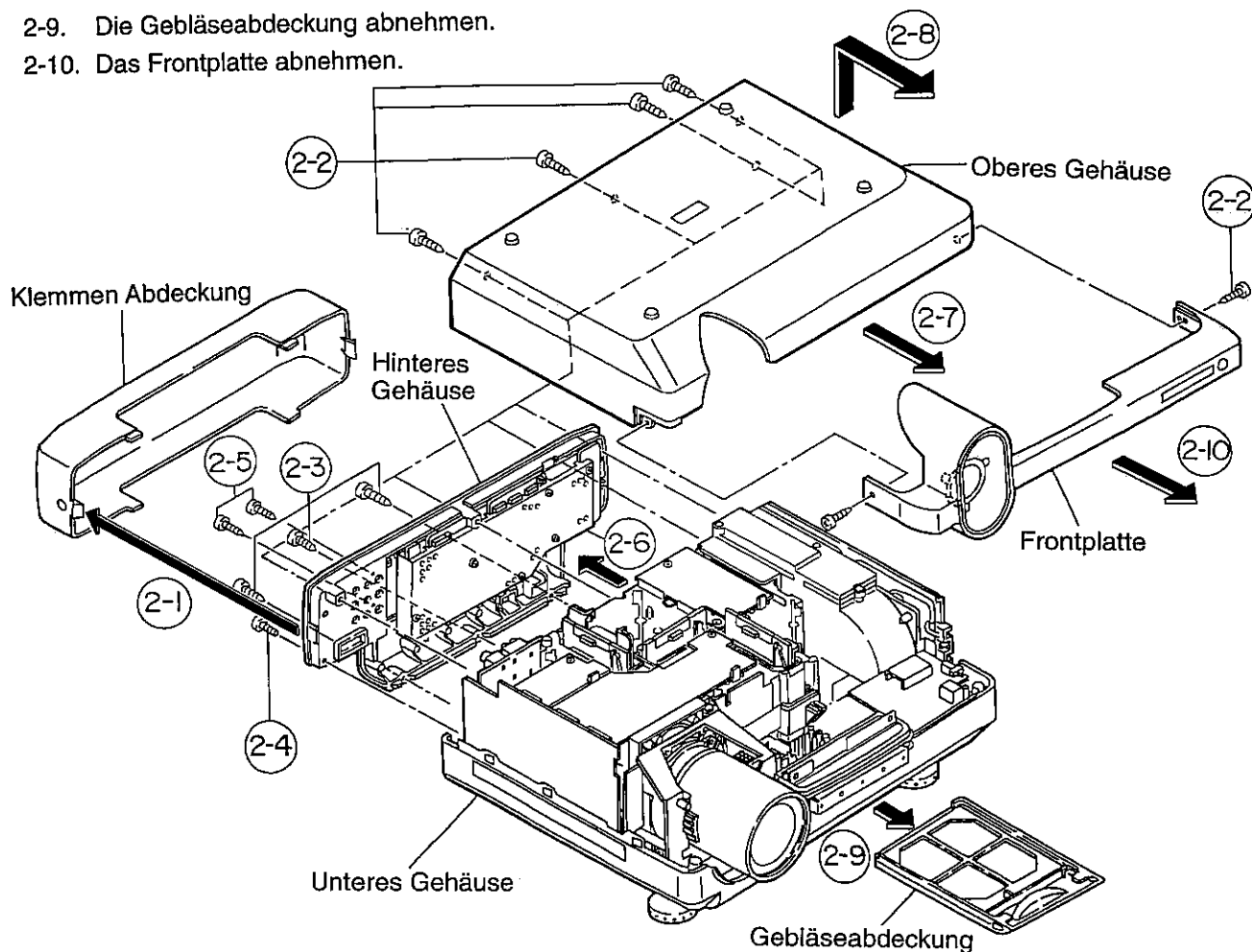
1. Entfernen der Lampeneinheit

- 1-1. Die Schraube von der Lampenabdeckung entfernen und die Abdeckung abnehmen.
- 1-2. Die zwei Schrauben von der Lampeneinheit entfernen.
- 1-3. Die Lampeneinheit herausziehen.



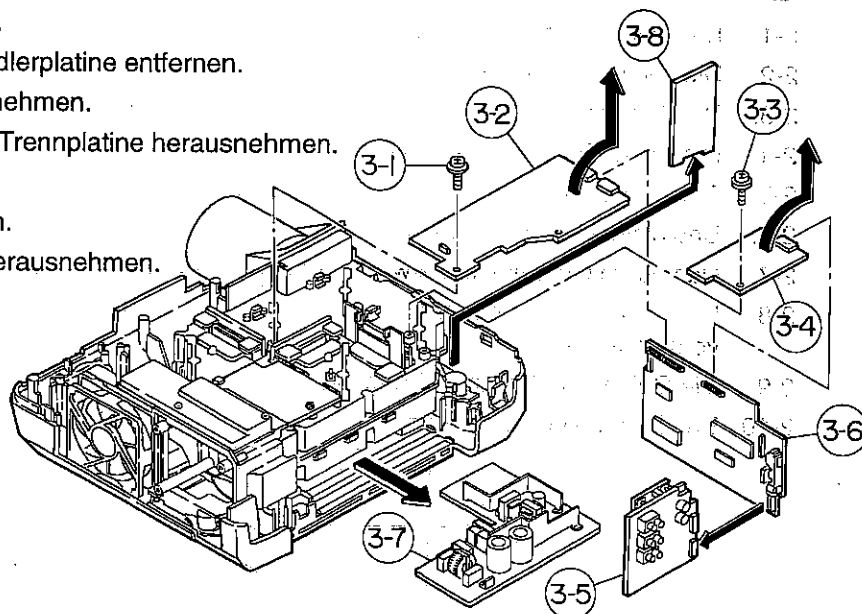
2. Entfernen des oberen und unteren Gehäuses sowie der Gebläseabdeckung

- 2-1. Die Haken an beiden Enden des klemmen Abdeckung lösen.
- 2-2. Die sechs Schrauben vom oberen Gehäuse entfernen.
- 2-3. Die drei Schrauben vom hinteren Gehäuse entfernen.
- 2-4. Die Schraube vom hinteren Gehäuse entfernen.
- 2-5. Die zwei Schrauben von der Eingangsplatine entfernen.
- 2-6. Das hintere Gehäuse abnehmen.
- 2-7. Das obere Gehäuse um etwa 10 mm nach vorne schieben.
- 2-8. Die Rückseite des oberen Gehäuses etwa 30 mm hoch halten und das obere Gehäuse dabei nach vorne abschieben.
- 2-9. Die Gebläseabdeckung abnehmen.
- 2-10. Das Frontplatte abnehmen.



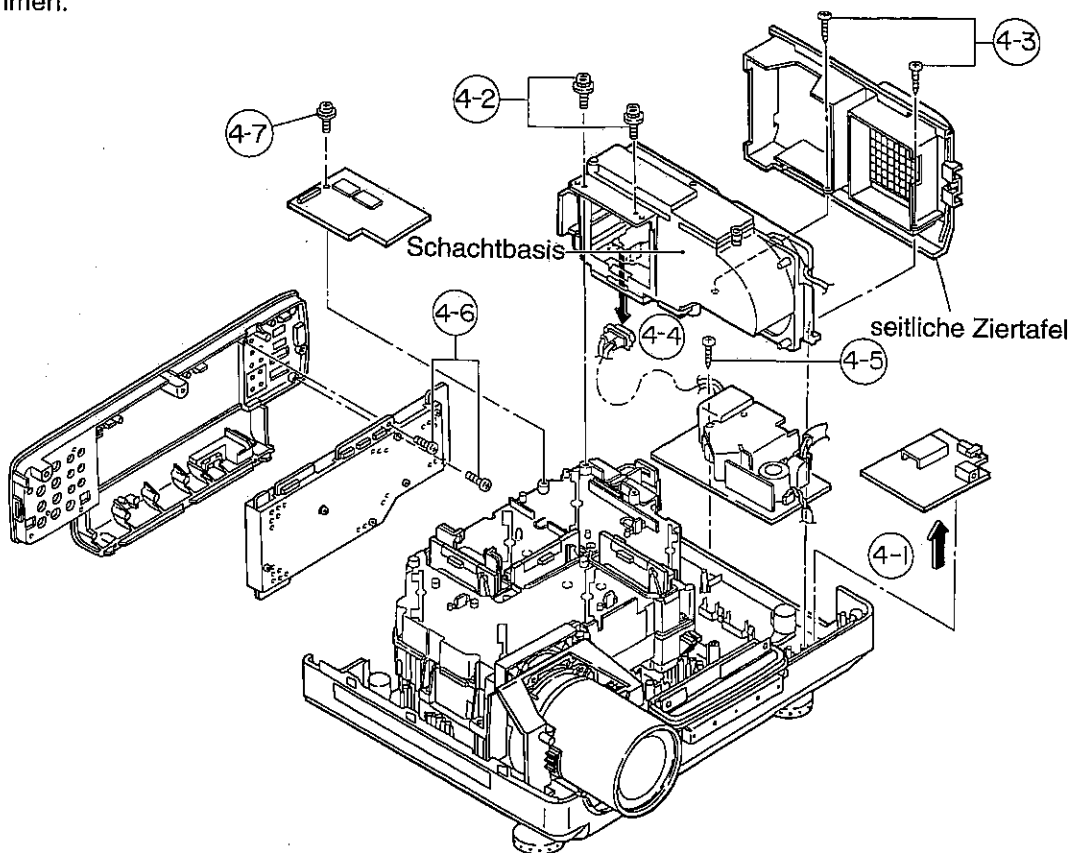
3. Entfernen der Haupt- und Nebenplatine

- 3-1. Die Schraube von der Steuerplatine entfernen.
- 3-2. Die Steuerplatine herausnehmen.
- 3-3. Die Schraube von der Scan-Wandlerplatine entfernen.
- 3-4. Die Scan-Wandlerplatine herausnehmen.
- 3-5. Die Eingangsplatine und die Y/C-Trennplatine herausnehmen.
- 3-6. Die Hauptplatine herausnehmen.
- 3-7. Die Netzteilplatine herausnehmen.
- 3-8. Die Schärfensteuerungsplatine herausnehmen.



4. Entfernen der Platinen

- 4-1. Die Audioverstärker/LED-Platine herausnehmen.
- 4-2. Die zwei Schrauben von der Gebläseeinheit entfernen.
- 4-3. Die zwei Schrauben von der seitlichen Zierrafel entfernen.
- 4-4. Die Steckverbindung mit der Ballastplatine lösen.
- 4-5. Die Schraube losdrehen, um die Ballastplatine zu entfernen.
- 4-6. Die beiden Schrauben losdrehen, welche die PC-Schnittstelleneinheit befestigen. Danach die Schnittstelleneinheit herausnehmen.
- 4-7. Die Schraube losdrehen, welche die VGA-Verstärkereinheit befestigt. Danach die Verstärkereinheit herausnehmen.

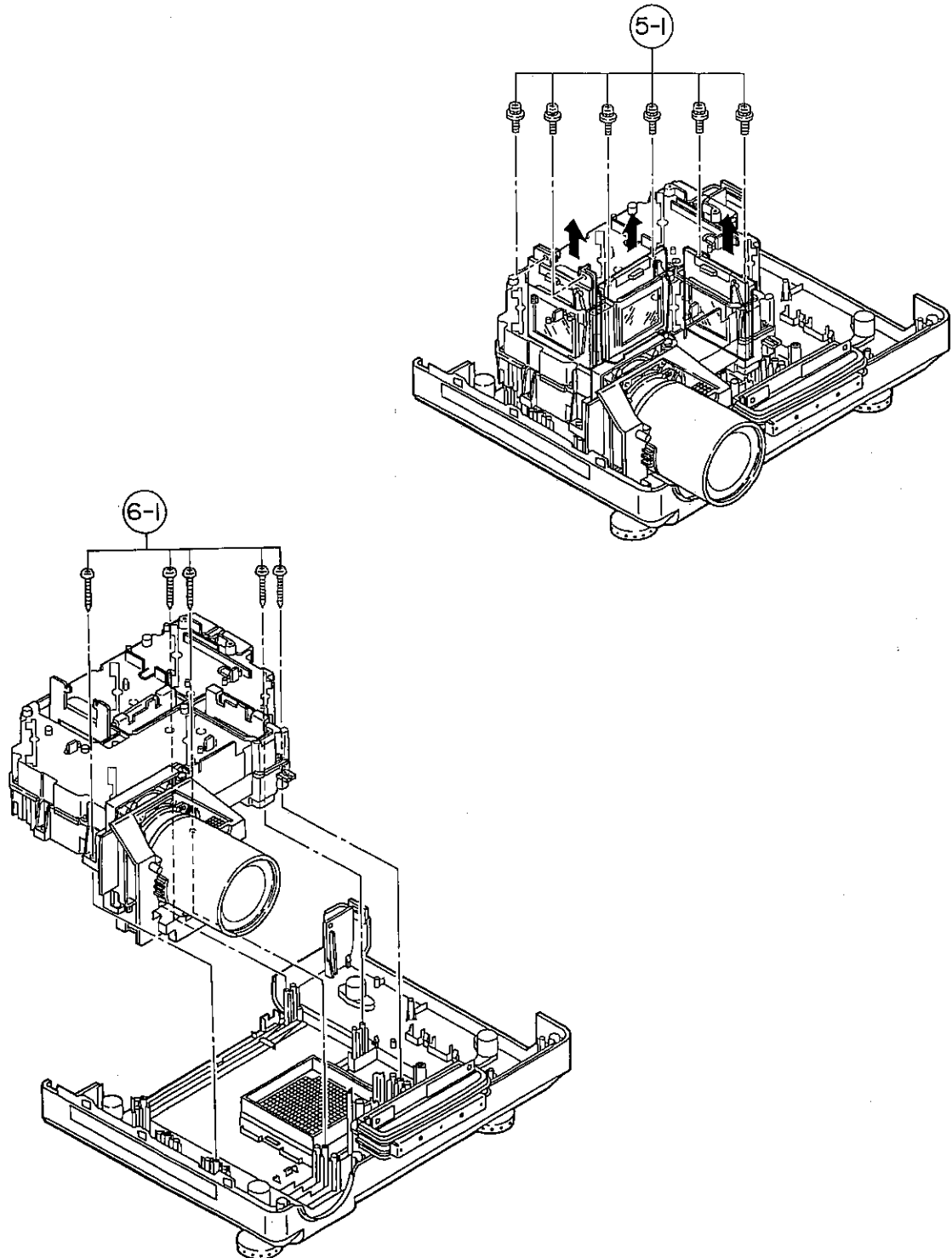


5. Auswechseln der LCD-Tafeln

5-1. Die Schrauben entfernen, je zwei von der R-, G- und B-LCD-Tafel, und die Tafeln herausnehmen.

6. Herausnehmen des optischen Mechanismus

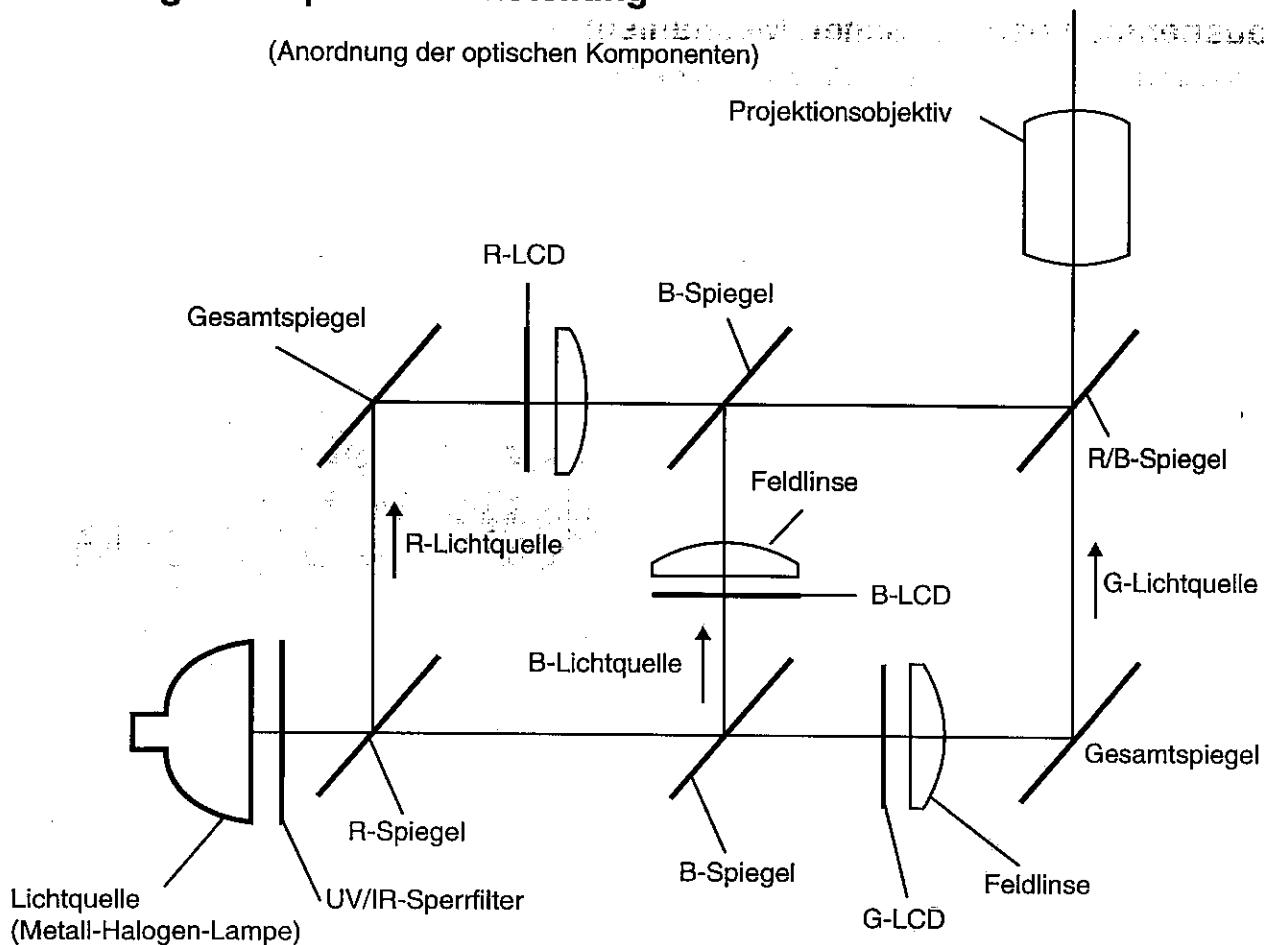
6-1. Die fünf Schrauben vom optischen Mechanismus entfernen und dann den Mechanismus abnehmen.



ÜBERSICHT ÜBER DIE OPTIKEINHEIT

Grundlegende optische Einstellung

(Anordnung der optischen Komponenten)



1. Einstellung der optischen Achse

Die einstellungsfreie Optikeinheit erfordert keine Einstellung der optischen Achse. (Es ist nicht möglich, diese Einstellung durchzuführen.)

2. LCD-Einstellung

R: R-LCD-Einheit - Feldlinse - R/B-Spiegel - Projektionsobjektiv

G: R-LCD-Einheit - Feldlinse - Gesamtspiegel - Projektionsobjektiv

B: R-LCD-Einheit - Feldlinse - B-Spiegel - R/B-Spiegel - Projektionsobjektiv

Jede der LCD-Einheiten kann eingestellt werden, um den Bildwinkel und die Fokussierung zu verbessern.

■ Reinigung der Linsen und Spiegel

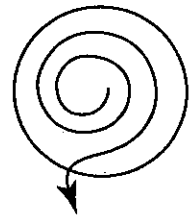
1. Linsenreinigung

- Reinigungsmittel:

Das Mischungsverhältnis von Alkohol und Äther in Abhängigkeit von der Umgebungstemperatur ändern. Das beste Mischungsverhältnis ist, wenn die Flüssigkeit unmittelbar nach dem Reinigen von der Linsenoberfläche verdampft. Je mehr Äther enthalten ist, desto schneller verdampft die Flüssigkeit.

- Methode

Gut gewaschene, gebleichte Baumwolle oder im Fachhandel erhältliches Reinigungspapier verwenden. Die Linse zwischen der gebleichten Baumwolle, die mit der Flüssigkeit befeuchtet wurde, mit dem Daumen und Zeigefinger halten. Die Linse drehen und von der Mitte ausgehend zum Rand hin reinigen, um den Staub aufzusammeln. Es muß darauf geachtet werden, die vergütete Oberfläche nicht zu stark zu reiben.



2. Spiegelreinigung

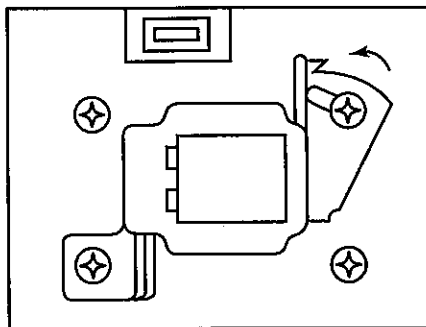
Die Spiegel niemals stark reiben, weil ihre Oberflächen durch Aufdampfung beschichtet sind. Zuerst Alkohol verwenden und mit einem trockenen Tuch wischen, wenn die Oberfläche etwas verschmutzt ist.

3. Zur Beachtung

Die Bildqualität wird stark beeinträchtigt, wenn beide Seiten der LCD-Einheit und die LCD-Seite der Feldlinsen verschmutzt sind. Diese Flächen müssen gut sauber gehalten werden.

■ Einstellung nach dem Auswechseln der LCD-Tafeln

Aufgrund der verbesserten Winkelgenauigkeit ist keine Winkeleinstellung der Polarisationsplatte erforderlich. Sie braucht nur ganz entgegen dem Uhrzeigersinn gedreht und in dieser Position befestigt zu werden.



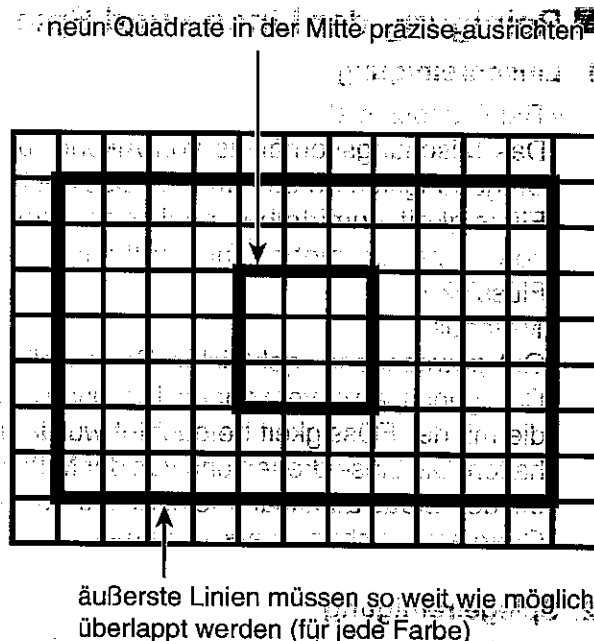
■ X- und Y-Einstellung

1. Benötigte Werkzeuge

- (1) Abschirmplatte (harte beschichtete Pappe zum Sperren der Lichtstrahlen)
- (2) Mustergenerator

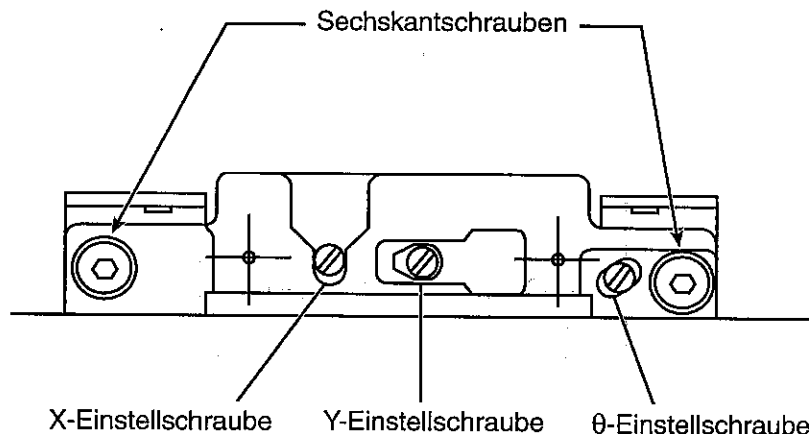
2. Einstellungsreferenzen

- (1) Die G-Tafel als Referenz verwenden. Die R- und die B-Tafel auf die G-Tafel abstimmen.
- (2) Die neun Quadrate in der Mitte präzise mit dem Projektionsmuster ausrichten.
- (3) Die äußersten Linien müssen so weit wie möglich überlappt werden.

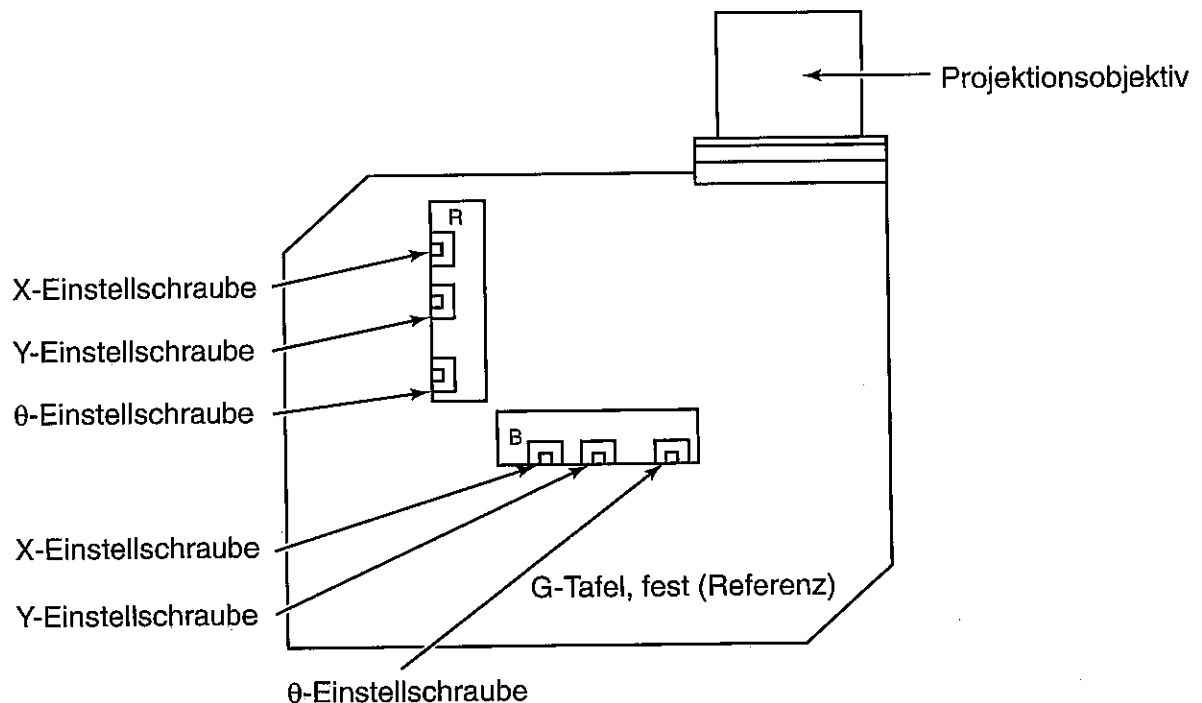


3. Einstellverfahren

- (1) Für die R-LCD-Tafel und die B-LCD-Tafel jeweils zwei Sechskantschrauben lösen (insgesamt 4 Schrauben).
- (2) Das Gittersignal vom Mustergenerator zuführen.
- (3) Die R-LCD-Tafel ausrichten.
 - Die Abschirmplatte vor die B-LCD-Tafel setzen (um die B-Lichtquelle zu sperren).
 - Die X-Achse für die horizontale Richtung einstellen.
 - Die Y-Achse für die vertikale Richtung einstellen.
 - Die θ -Richtung für Neigung einstellen.

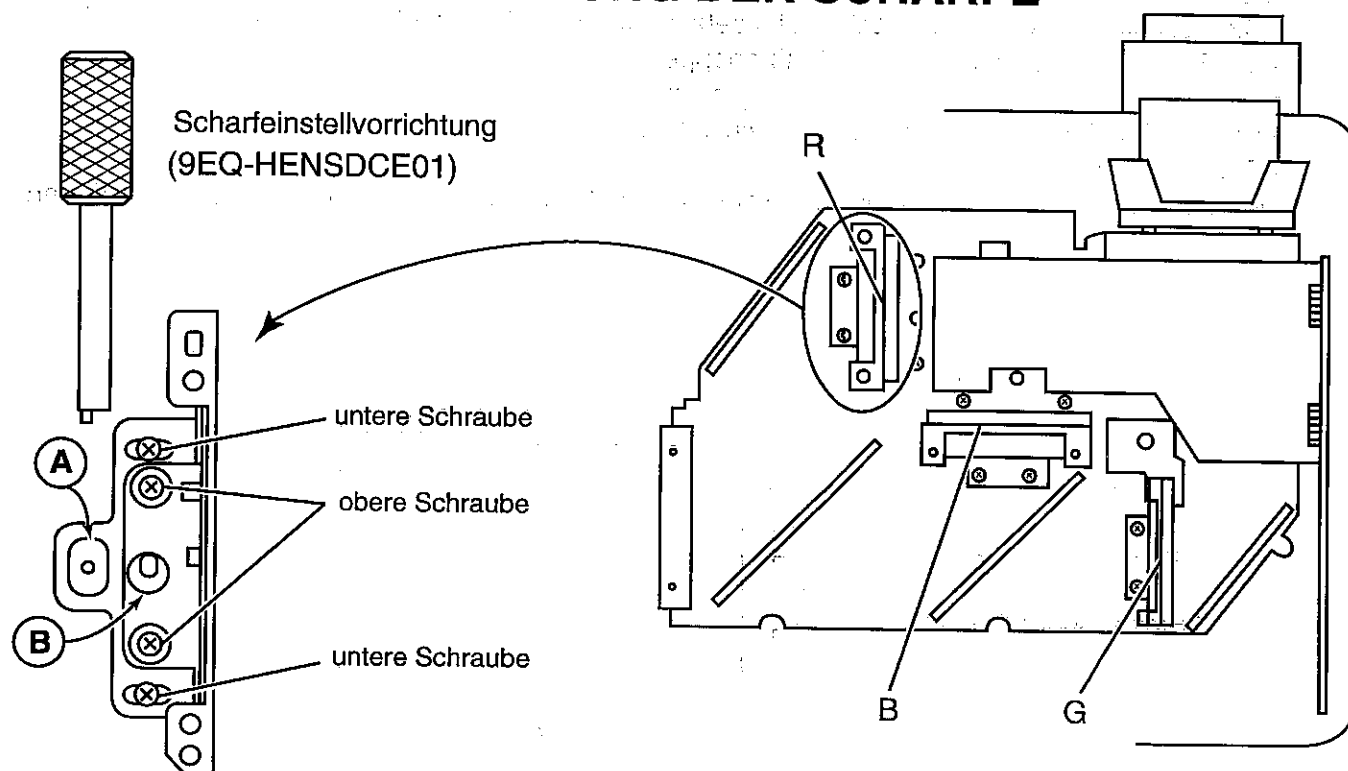


- (4) Die B-LCD-Tafel ausrichten.
- Die Abschirmplatte vor die R-LCD-Tafel setzen (um die R-Lichtquelle zu sperren).
 - Die B-Quadrate auf die G-Quadrate überlappen.
 - Die X-Achse für die horizontale Richtung einstellen.
 - Die Y-Achse für die vertikale Richtung einstellen.
 - Die θ -Richtung für Neigung einstellen.
- (5) Die vier Sechskantschrauben (die im obigen Schritt (1) gelöst wurden) auf 13 ± 1 kg-cm anziehen.



Einstellschraube	Drehrichtung	R	B
θ	im Uhrzeigersinn	rechte Seite nach oben	rechte Seite nach unten
	entgegen dem Uhrzeigersinn	rechte Seite nach unten	rechte Seite nach oben
Y	im Uhrzeigersinn	abgesenkt	gehoben
	entgegen dem Uhrzeigersinn	gehoben	abgesenkt
X	im Uhrzeigersinn	nach rechts bewegt	nach links bewegt
	entgegen dem Uhrzeigersinn	nach links bewegt	nach rechts bewegt

EINSTELLUNG DER SCHÄRFE



Draufsicht der Wandler für die Farben rot und blau

1. Das vordere Gehäuse herausnehmen.
2. Das obere Gehäuse herausnehmen.
3. Das Gerät hinstellen, wie oben dargestellt (Draufsicht). Das Projektionsobjektiv scharf für die Farbe grün einstellen. (Die rote und blaue Farbe unterdrücken.)
4. Die zwei oberen Schrauben und die zwei unteren Schrauben (insgesamt vier) lösen, wie links dargestellt, um den Wandler für die Farbe rot zu lösen.
5. Während die Farben grün und blau unterdrückt werden (bei eingeführter Lichtabschirmplatte), wird nur die rote Farbe durchgelassen. Die folgenden Schritte ausführen, während der rote Bildschirm verfolgt wird.
- 5-1. Wenn der obere Bereich des Bildschirms unscharf ist, den exzentrischen Stift (an der Spitze der Scharfeinstellvorrichtung) in das Loch von Teil A einsetzen (an der Unterseite des Rot-Farbwandlers) und die Scharfeinstellvorrichtung drehen. Dadurch schwingt der untere Bereich des Rot-Farbwandlers je nach Lichtflußrichtung vor und zurück. Dabei wird der obere Bereich des Bildschirms scharfgestellt. Beobachten Sie den Bildschirm um die beste Schärfe einzustellen. Schließlich sind die unteren Schrauben festzuziehen.
- 5-2. Wenn der untere Bereich des Bildschirms unscharf ist, den exzentrischen Stift (an der Spitze der Scharfeinstellvorrichtung) in das ovale Loch von Teil B einsetzen (an der Oberseite des Rot-Farbwandlers) und die Scharfeinstellvorrichtung drehen. Dadurch schwingt der untere Bereich des Wandlers für die rote Farbe je nach Lichtflußrichtung vor und zurück. Dabei wird der obere Bereich des Bildschirms scharfgestellt. Beobachten Sie den Bildschirm und stellen Sie die Schärfe ein. Schließlich sind die oberen Schrauben festzuziehen.
- 5-3. Nachdem der untere Bereich des Bildschirms scharf eingestellt ist, kann der obere Bildschirmbereich eventuell wieder unscharf werden. In diesem Fall sind die unteren Schrauben wieder zu lockern und die Verfahrensschritte von 5-1 zu wiederholen. Schließlich sind die unteren Schrauben erneut festzuziehen.
6. Die obigen vier Schrauben wieder anziehen.
7. Die gleichen Schritte 4. bis 6. durchführen, um die Schärfe für die Farbe blau einzustellen.
8. Das obere und vordere Gehäuse wieder anbringen.

ADJ.IN-FUNKTION

1. Übersicht

Diese Funktion ist zur Durchführung verschiedener Einstellungen mit dem ADJ.IN-Schalter (S2001) und dem Membranschalter des Projektors vorgesehen.

2. Verwendete Tasten

[S2001], [MENU], [INPUT SELECT], [SELECT UP:▲], [SELECT DOWN:▼], [ADJUST+:>], [ADJUST-:<], [VIDEO +/-], [BRIGHT +/-], [COLOR +/-] und [TINT +/-]

3. Speicherung der letzten Einstellungen

Einstellelemente: Die vorherigen Einstellungen im ADJ.IN-Modus werden gespeichert.
Einstelldaten für alle Elemente

4. Verfahren

4-1. Den ADJ.IN-Modus mit dem Schalter [ADJ.IN] abrufen.

4-2. Mit den Tasten [SELECT UP], [SELECT DOWN], [ADJUST+] und [ADJUST-] die gewünschte Gruppe der Einstellelemente wählen. Die Taste [MENU] drücken.

4-3. Mit den Tasten ▲, ▼, < und > das gewünschte Einstellelement in der Gruppe auswählen. Die Taste [MENU] drücken. (Durch Betätigung der Taste ▲ oder ▼ wechseln die Einstellelemente in der Gruppe nacheinander.)

4-4. Die Taste [INPUT SELECT] drücken, dann erscheint das unmittelbar zuvor angezeigte Einstellelement wieder auf dem Bildschirm.

4-5. Wenn der Schalter [ADJ.IN] im ADJ.IN-Modus gedrückt wird, wird der Modus deaktiviert. (Sämtliche Anzeigen im ADJ.IN-Modus erfolgen auf Englisch.)

5. Gruppen von Einstellelementen

VIDEO 1	VIDEO 2	VIDEO 3	RGB 1	RGB 2	LENS	MASK	N • W
SUB-DC SUB-C TINT COLOUR PICTURE BRIGHT	CB-R CB-G CB-B SUB-BIAS R-DRIVE R-BIAS R-DRIVE R-BIAS	PAL-SUB-C BELL-FO SCM-R-Y SCE-B-Y PN-AMP SCM-AMP PAL-H	SUB-C	PICTURE BRIGHT R-DRIVE B-DRIVE PULSE H-PHASE	AUTO STANDARD TOP BOTTOM POINT	TOP BOTTOM	RED GREEN BLUE WHITE N • W

Im Video-Eingangsmodus: VIDEO 1-3, LENS, MASK, N.W

Im RGB 1-Eingangsmodus: RGB 1, LENS, N.W

Im RGB 2-Eingangsmodus: RGB 2, LENS, N.W

DAC-BETRIEB

VIDEO 1

SUB-DC: Nebengleichstrom-Einstellung
 SUB-C: Nebenkontrast-Einstellung
 TINT: Farbtoneinstellung
 COLOR: Farbeinstellungen
 PICTURE: Bildeinstellung
 BRIGHT: Helligkeitseinstellung

VIDEO 2

CB-R: Einstellung der Gegen-Vormagnetisierung nur für rot
 CB-G: Einstellung der Gegen-Vormagnetisierung nur für grün
 CB-B: Einstellung der Gegen-Vormagnetisierung nur für blau
 SUB-BIAS: nicht verwendet
 R-DRIVE: Einstellung der Weißbalance-Ansteuerung (rot)
 R-BIAS: Einstellung der Weißbalance-Vormagnetisierung (rot)
 B-DRIVE: Einstellung der Weißbalance-Ansteuerung (blau)
 B-BIAS: Einstellung der Weißbalance-Vormagnetisierung (blau)

VIDEO 3

PAL-SUB-C: PAL-Nebenkontrast-Einstellung
 BELL-FO: Glockenfilter-Einstellung
 SCM-R-Y: SECAM R-Y-Einstellung
 SCM-B-Y: SECAM B-Y-Einstellung
 PN-AMP: Einstellung der PN-Amplitude
 SCM-AMP: Einstellung der SECAM-Amplitude
 PAL-H: Einstellung der Horizontalphase

RGB 1

SUB-C: Nebenkontrast-Einstellung

RGB 2

PICTURE: Bildeinstellung
 BRIGHT: Helligkeitseinstellung
 R-DRIVE: Weißbalance-Einstellung (rot)
 B-DRIVE: Weißbalance-Einstellung (blau)
 PULSE: eingeben der Rückstellimpuls-Zeitdauer
 H-PHASE: Einstellung der Horizontalphase

LENS

Einstellungen der Objektivversetzung

AUTO: Versetzungseinstellung

STANDARD: nicht verwendet

TOP: nicht verwendet

BOTTOM: nicht verwendet

POINT: nicht verwendet

MASK

Maskierungseinstellungen

TOP: Maskierungsposition für obere Bildschirmhälfte

BOTTOM: Maskierungsposition für untere Bildschirmhälfte

N.W

Einzelfarben-Anzeigen

R: rot

G: grün

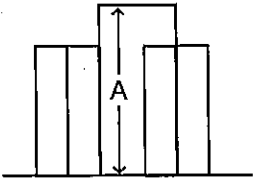
B: blau

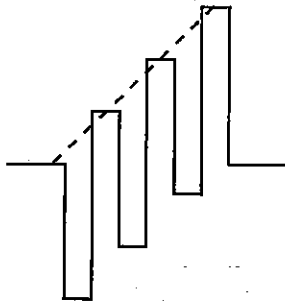
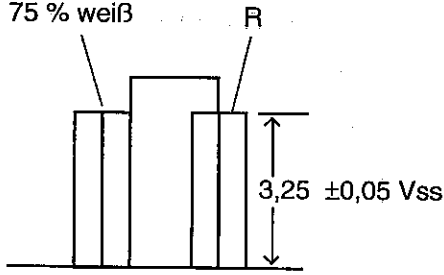
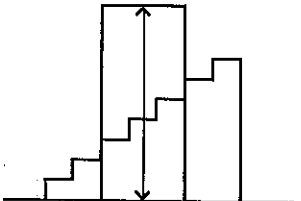
W: weiß

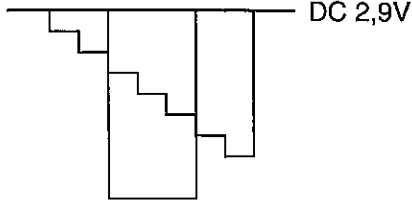
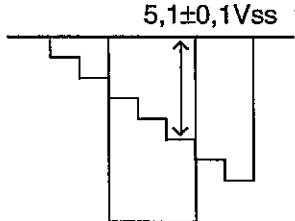
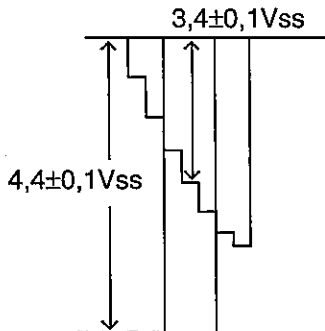
N.W: weiß

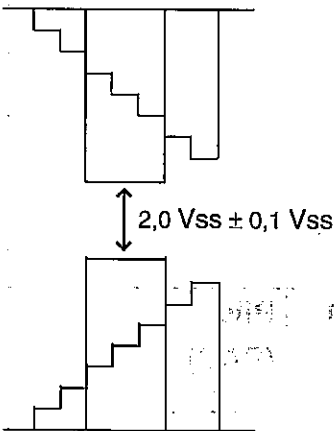
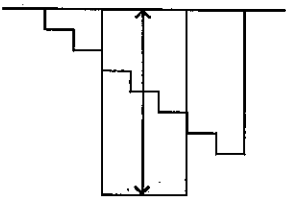
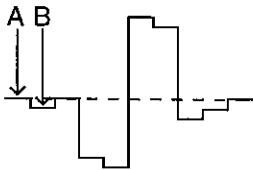
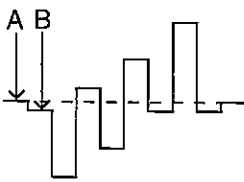
ELEKTRISCHE EINSTELLUNG

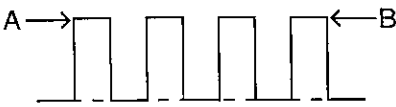
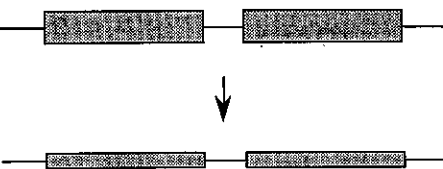
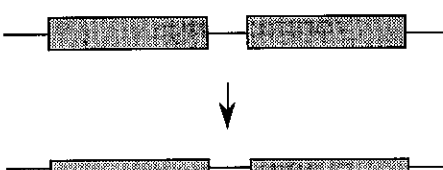
HINWEIS: Die Einstellungen wurden ab Werk optimal vorgenommen. Falls jedoch Einstellungen nicht mehr den Vorgaben entsprechen oder wenn wichtige Teile ausgewechselt wurden, müssen die entsprechenden Einstellungen neu durchgeführt werden.

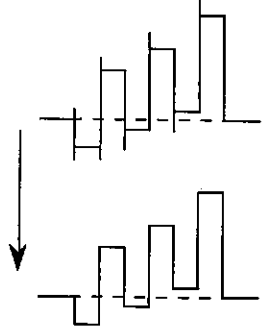
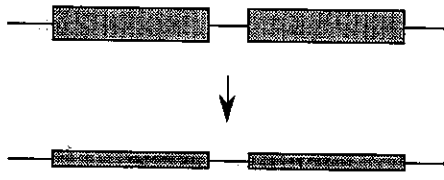
Schritt	Einstellposition	Einstellbedingungen	Einstellmethode
1	Position der Objektivversetzung	1. Die Objektivversetzung als Standardposition einstellen. 2. Den folgenden DAC-Modus einstellen. Gruppe: LENS Gegenstand: AUTO durch Drücken von S2001 und der Taste +/- auf dem Membranschalter.	• DAC (+) im Membranschalter drücken, der Mikroprozessor bewirkt automatisch die Objektivversetzung und speichert Daten.
2	VCO primär OSC L1601 (Steuereinheit)	1. Das Monoskop-Mustersignal empfangen. 2. S1601 drücken.	• Den Kern von L1601 einstellen, so daß das Bild auf dem Bildschirm erscheint. Nach der Einstellung S1601 abnehmen.
3	H-Mitte R1603	1. Das Monoskop-Mustersignal empfangen.	• Mit R1603 H-Mitte einstellen.
4	Abtastwandlung L4101	1. Einen Kurzschluß zwischen TP4101 und GND herstellen. 2. Den Frequenzzähler an TP4102 anschließen.	• L4101 so einstellen, daß der Frequenzzähler $15,625 \pm 0,01$ kHz anzeigt.
5	Neben-DC (DAC)	1. Das Farbbalkensignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: VIDEO 1 Gegenstand: Nebengleichstrom 3. Das Oszilloskop an Stift (5) von SC801 anschließen.	• Mit der Taste DAC +/- den Schwarzpegel gleich wie die Schwarzabhebung einstellen.
6	Nebenkontrast (DAC)	1. S801 im AGC-Aus-Modus wählen. (R1540 durch S801 öffnen.) 2. Das Farbbalkensignal empfangen. 3. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: VIDEO 1 Gegenstand: Neben-C 4. Das Oszilloskop an Stift (6) von SC801 anschließen.	• Mit der Taste DAC +/- auf dem Membranschalter den "A"-Pegel der Schwarzabhebung und 100 %-Weißwellen auf $3,4 \pm 0,05$ Vss einstellen. A: $3,4 \pm 0,05$ Vss 

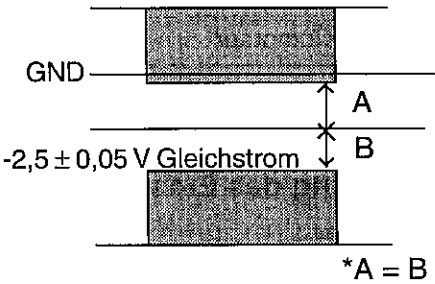
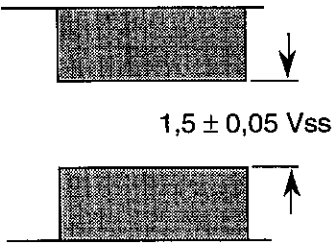
Schritt	Einstellposition	Einstellbedingungen	Einstellmethode
7	Farbton (DAC)	1. Das Farbbalkensignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 1 Gegenstand: Farbton 3. Das Oszilloskop an GND und TP802 [Stift (41) von IC801 (B-Y-Ausgang)] anschließen.	• Den Hautton der B-Y-Wellenform mit der Taste +/- auf dem Membranschalter einstellen. (siehe die nachstehende Wellenform) 
8	Farbe (DAC)	1. Das Farbbalkensignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 1 Gegenstand: Farbe 3. Das Oszilloskop an Stift (6) von SC801 anschließen.	• Den Pegel zwischen R und der Schwarzabhebung $3,25 \pm 0,05$ Vss mit der Taste +/- auf dem Membranschalter einstellen. 
9	Automatische Verstärkungsregelung (AGC) R1539	1. S801 im AGC-Ein-Modus wählen. (R1540 angeschlossen) 2. Das Farbbalkensignal empfangen. 3. Das Oszilloskop an Stift (6) von SC801 anschließen.	• Den Pegel zwischen 100 % weiß und den Schwarzabhebungspegel auf $3,0 \pm 0,05$ Vss einstellen. 

Schritt	Einstellposition	Einstellbedingungen	Einstellmethode
10	Helligkeit (DAC) AGC ein	1. Das Farbbalkensignal empfangen. 2. Den Stift (2) von SC1501 auf Gleichstrom +4 V einstellen, wobei R1516 γ-aus ist. 3. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 1 Gegenstand: Helligkeit 4. Das Oszilloskop an Stift (5) von SC1501 und GND anschließen.	• Das Schwarzabhebung-Pegelsignal auf Gleichstrom $2,9 \pm 0,05$ Vss mit der Taste +/- auf dem Membranschalter einstellen. 
11	Bild (DAC) AGC ein	1. Das Farbbalkensignal empfangen. 2. Den Stift (2) von SC801 auf Gleichstrom +4 V einstellen, wobei R1516 γ-aus ist. 3. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 1 Gegenstand: Helligkeit	• Den Pegel zwischen der Schwarzabhebung und der 5. Abstufung auf $5,1$ Vss $\pm 0,1$ Vss mit der Taste +/- auf dem Membranschalter einstellen. 
12	γ-Korrektur R1516 R1517 AGC ein	1. Das Farbbalkensignal empfangen. 2. Das Oszilloskop an Stift (6) von SC1501 anschließen. 3. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 1 Gegenstand: Helligkeit	• Den Pegel zwischen der Schwarzabhebung und der 4. Abstufung auf $3,4$ Vss $\pm 0,1$ Vss mit R1516 einstellen. • Den Pegel zwischen der Schwarzabhebung und der 100 % Weißabstufung auf $4,4$ Vss $\pm 0,1$ Vss mit R1517 einstellen. 

Schritt	Einstellposition	Einstellbedingungen	Einstellmethode
13	Weiß-zu-Weiß-Pegelprüfung	1. Das Farbbalkensignal empfangen. 2. Das Oszilloskop an TP804 (G-OUT) und GND anschließen.	• Sicherstellen, daß der Pegel zwischen den weißen Bereichen der oberen und unteren Wellen $2,0 \pm 0,1$ Vss beträgt. • Falls die Einstellung nicht stimmt, die Einstellung gemäß "Gruppe: VIDEO 1, Einstellelement: BILD" durchführen. 
14	PAL-Nebenkontrast (DAC) AGC ein	1. Das PAL-Farbbalkensignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 3 Gegenstand: PAL Neben-C 3. Das Oszilloskop an Stift (5) von SC1501 anschließen.	• Den Pegel zwischen der Schwarzabhebung und 100 % weiß auf $4,4 \pm 0,05$ Vss mit der Taste +/- auf dem Membranschalter einstellen. 
15	SECAM R-Y (DAC)	1. Das SECAM-Farbbalkensignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 3 Gegenstand: SCM-R-Y 3. Das Oszilloskop an TP809 (Stift (30) von IC802) anschließen.	• Den Pegel "B" gleich wie den Pegel "A" mit der Taste +/- auf dem Membranschalter einstellen. 
16	SECAM B-Y (DAC)	1. Das SECAM-Farbbalkensignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 3 Gegenstand: SCM-R-Y 3. Das Oszilloskop an TP809 (Stift (29) von IC802) anschließen.	• Den Pegel "B" gleich wie den Pegel "A" mit der Taste +/- auf dem Membranschalter einstellen. 

Schritt	Einstellposition	Einstellbedingungen	Einstellmethode
17	SECAM AMP (DAC)	1. Das SECAM-Farbbalkensignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 3 Gegenstand: SCM-AMP 3. Das Oszilloskop an Stift (4) von SC804 anschließen.	Den Pegel "B" gleich wie den Pegel "A" mit der Taste +/- auf dem Membranschalter einstellen. 
18	PAL H-Mitte (DAC)	1. Das PAL- oder SECAM-Monoskop-Mustersignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 3 Gegenstand: PAL-H	Die Mitte der Bildpositionen auf dem Bildschirm mit der Taste +/- auf dem Membranschalter einstellen.
19	R-Ansteuerung R- Vormagnetisierung (DAC)	1. Das Monoskop-Mustersignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 2 Gegenstand: R-Ansteuerung (und R-Vormagnetisierung) 3. Das Oszilloskop zwischen TP1804 an CH1 und TP1802 an CH2 anschließen. CH1 und invertierten CH2 hinzufügen.	Die Wellenform auf Minimum mit der Taste +/- auf dem Membranschalter im R-Vormagnetisierung- und R-Ansteuerung-Modus einstellen. 
20	B-Ansteuerung B- Vormagnetisierung (DAC)	1. Das Monoskop-Mustersignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 2 Gegenstand: B-Ansteuerung (und B-Vormagnetisierung) 3. Das Oszilloskop zwischen TP1804 und CH1 sowie TP180 und CH2 anschließen. CH1 und invertierten CH2 hinzufügen. 4. Stift (1) und Stift (2) von TP3 (P1603) kurzschließen. (Nach der Einstellung Stift (1) und Stift (2) von TP3 (P1603) öffnen.)	Die Wellenform auf Minimum mit der Taste +/- auf dem Membranschalter im B-Vormagnetisierung- und B-Ansteuerung-Modus einstellen. 
21	Einstellung der Farbschattierung zwischen links und rechts R1650	1. Das Monoskop-Mustersignal empfangen. 2. Stift (1) und Stift (2) von TP3 (P1605) öffnen.	R1650 so einstellen, daß die Farbschattierung zwischen rechts und links minimal wird.

Schritt	Einstellposition	Einstellbedingungen	Einstellmethode
22	Gemeinsame Gleichstrom-Vormagnetisierung R1885: R R1889: G R1883: B	1. Das Monoskop-Mustersignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: Video 2 Gegenstand: CB-R, CB-G, CB-B	• R1885, R1889 und R1893 so einstellen, daß der Kontrast visuell am schärfsten wird.
23	Maskierungseinstellung (DAC)	1. Das Monoskop-Mustersignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: MASK Gegenstand: TOP, BOTTOM	• Mit der Taste +/- für Videoeinstellung die obere und untere Nutzflächenüberschreitung auf jeweils 95 % einstellen.
24	Zeichenanzeigeposition (T2001)	1. Das Monoskop-Mustersignal empfangen.	• T2001 so einstellen, daß das Schärfezeichen auf dem Bildschirm symmetrisch nach rechts und links ist.
25	SECAM BELL-Filter (DAC)	1. Das SECAM-Farbbalkensignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: VIDEO 3 Gegenstand: BELL-FO 3. Das Oszilloskop an TP808 (Stift (29) von IC802) anschließen.	• Die Kante der Wellenform zwischen Farbe und Farbglättung mit der Taste +/- auf dem Membranschalter einstellen. 
26	VGA-Verstärkung R3055 (R) R3252 (G) R3049 (B) (VGA)	1. Vorbereitungen durchführen. 1-1. TP3301 kurzschließen. 1-2. Das MAC-Signal mit 16 Farbtönen empfangen. 1-3. Das Oszilloskop an TP1801 anschließen. R3213 grob so einstellen, daß der Schwarzanteil der Wellenform deutlich ist. 1-4. Die gleiche Grobeinstellung für TP1803/R3202 und TP1805/R3205 durchführen. 2. Das Oszilloskop zwischen TP1801 und CH1 sowie TP1802 und CH2 anschließen. CH1 und invertierten CH2 hinzufügen. 3. G: TP1803 und TP1804 B: TP1805 und TP1806	• Die Wellenform mit R3055 auf Minimum einstellen. G: R3252, B: R3049 

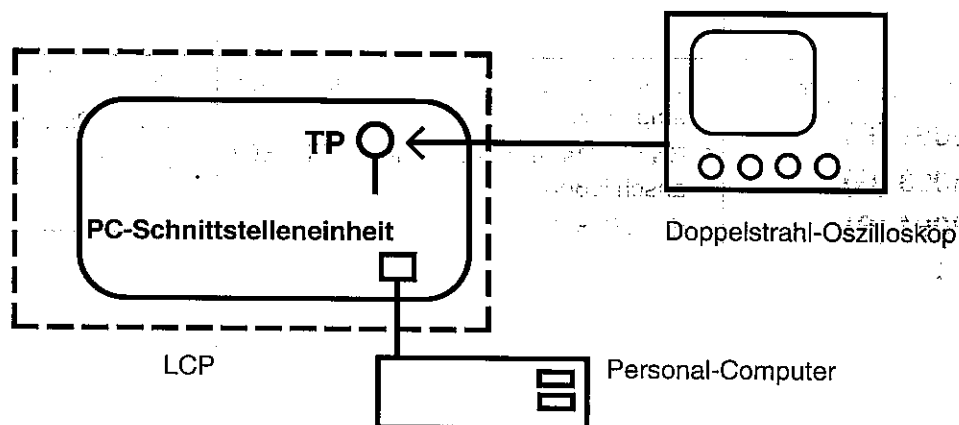
Schritt	Einstellposition	Einstellbedingungen	Einstellmethode
27	Mitten-Vormagnetisierung R3213 (R) R3202 (G) R3205 (B) (VGA)	1. Das MAC-Signal mit 16 Farbtönen empfangen. 2. Das Oszilloskop zwischen TP1801 und dem Oszilloskop anschließen. G : TP1803 B : TP1805	• Die Mitte der oberen und unteren Wellenform auf $-2,5 \pm 0,05$ V Gleichstrom mit R3213 einstellen. 
28	VGA-Helligkeit R3062 (R) R3063 (G) R3064 (B) (VGA)	1. Das MAC-Signal mit 16 Farbtönen empfangen. 2. Das Oszilloskop an TP1801 anschließen. G : TP1803 B : TP1805	• Weiß auf den Weißpegel $1,5 \pm 0,05$ Vss mit R3062 einstellen. G : R3063, B : 3064 
29	VGA-Weißbalance (Feineinstellung)	1. Das MAC-Signal mit 16 Farbtönen empfangen.	• R3062 und R3064 einstellen und visuell prüfen, ob das Muster das gleiche ist wie auf dem Kathodenmonitor.
30	Einstellung der Farbschattierung zwischen links und rechts R3313	1. Den Kurzschluß von TP3301 entfernen. 2. Das MAC-Graukartensignal empfangen.	• R3313 so einstellen, daß die Farbunregelmäßigkeit links und rechts vom Muster minimal wird.
31	MAC-Phase (DAC)	1. Das MAC-Kachelmuster empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: RGB 2 Gegenstand: H-Phase	• Die Taste +/- so einstellen, daß die Störungen auf dem Bildschirm minimal werden.
32	Analog-RGB AGC ein	1. Das $0,7$ Vss Analog-RGB-Farbbalkensignal empfangen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe: RGB 1 Gegenstand: Neben-C Das Oszilloskop zwischen Stift (5) von SC1501 und GND anschließen.	• Den Pegel zwischen der Schwarzabhebung und weiß auf $4,4 \pm 0,1$ Vss mit der Taste +/- auf dem Membranschalter einstellen.

EINSTELLUNG DER PC-SCHNITTSTELLENPLATINE

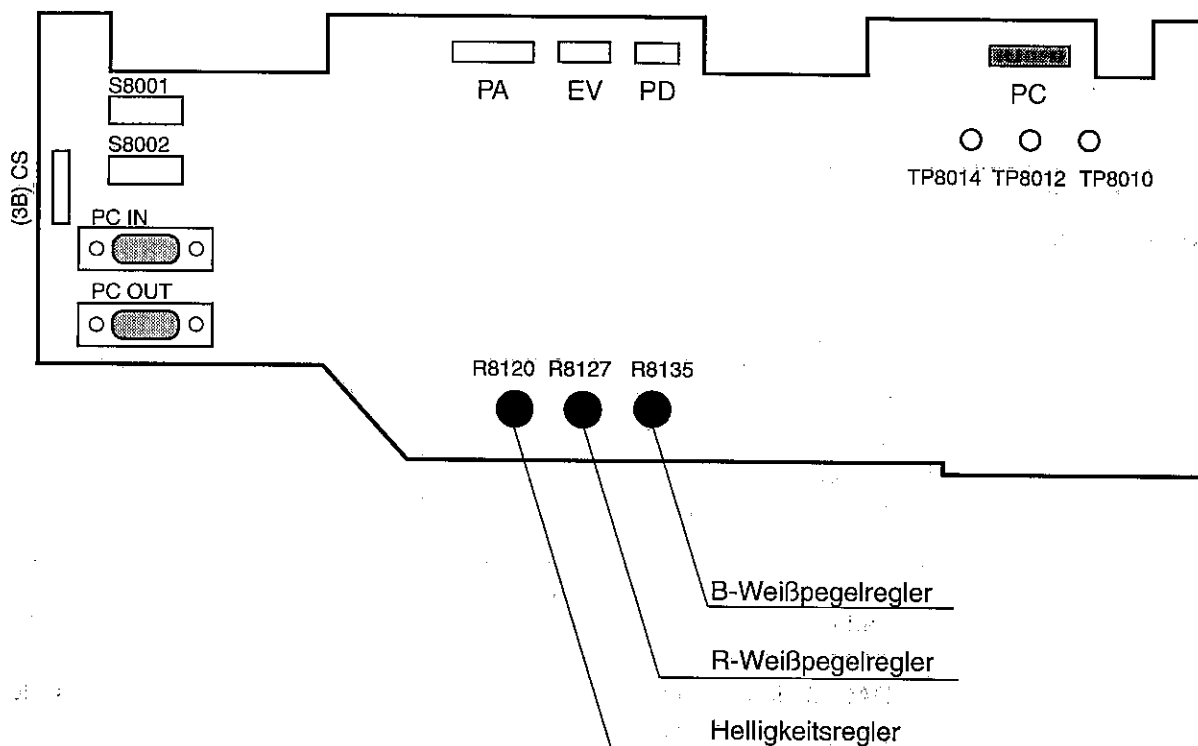
Einstellung des Analogabschnitts

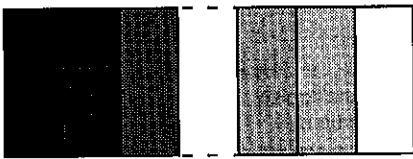
Instrumente/Werkzeuge	Anmerkungen
Personal-Computer	IBM PC (VGA), Macintosh (640 * 480)
Schraubendreher für Reglereinstellung	

Anordnung des Einstellsystems



Anordnung



Einstellbedingungen	Einstellverfahren
• Pegel- und Verstärkungseinstellung (Analogausgang Computer)	
Meßpunkte Stift (9) von PC-Anschluß(grün, Helligkeit): TP8014 Stift (5) von PC-Anschluß(blau): TP8012 Stift (1) von PC-Anschluß(rot): TP8010 Einstellpunkte R8120: Helligkeitseinstellung R8135: B-Weißpegeleinstellung R8127: R-Weißpegeleinstellung Vorbereitungen 1. Den Filterschalter (S8001) auf die Position OFF stellen. 2. Den Analog/Digital-Wähler (S8002) auf die Position ANALOG stellen. 3. Den Einstellpegel des LCP zurückstellen. (Die MENU-Taste an der Fernbedienung oder am Gerät drücken, das Menü RGB 2 ADJ. wählen und die RESET-Taste drücken.) 4. Alle obigen Regler auf ihre mechanischen Mitten stellen. 5. Den Personal-Computer (PC-9801 oder IBM PC (VGA)) an den PC IN-Anschluß anschließen. Die Karte mit 16 Farbtönen auf dem Bildschirm anzeigen.  schwarz weiß 6. Das Oszilloskop auf 10 μs/Tlg. und 0,2 V/Tlg. (Wechselstrom) einstellen.	• Helligkeitseinstellung (G-Weißpegeleinstellung) 1. Das Oszilloskop an Stift (9) (TP8014) des PC-Anschlusses anschließen. 2. Mit dem Helligkeitsregler (R8120) die Farbtonkarte einstellen. Die maximale Amplitude auf 0,95 Vss einstellen. • B-Weißpegeleinstellung 3. Das Oszilloskop an Stift (5) (TP8012) des PC-Anschlusses anschließen. 4. Mit dem B-Weißpegelregler (R8135) die Farbtonkarte einstellen. Die maximale Amplitude auf 0,95 Vss einstellen. • R-Weißpegeleinstellung 5. Das Oszilloskop an Stift (1) (TP8010) des PC-Anschlusses anschließen. 6. Mit dem R-Weißpegelregler (R8127) die Farbtonkarte einstellen. Die maximale Amplitude auf 0,95 Vss einstellen. Hinweis: Die Farbtonkarte muß unbedingt so angezeigt werden, wie vorgegeben.
• Phaseneinstellung	
Einstellpunkt Phasenregeltasten (PHASE< und PHASE>) Vorbereitungen 1. Den Filterschalter (S8001) auf die Position OFF stellen. 2. Am Personal-Computer vorgeben, daß der Buchstabe "H" auf dem Bildschirm erscheint.	•Einstellung 1. Die <u>Phasenregeltasten (PHASE< und PHASE>)</u> so einstellen, daß das Bild am schärfsten wird.

PC-Anschluß-Einstellwellenform

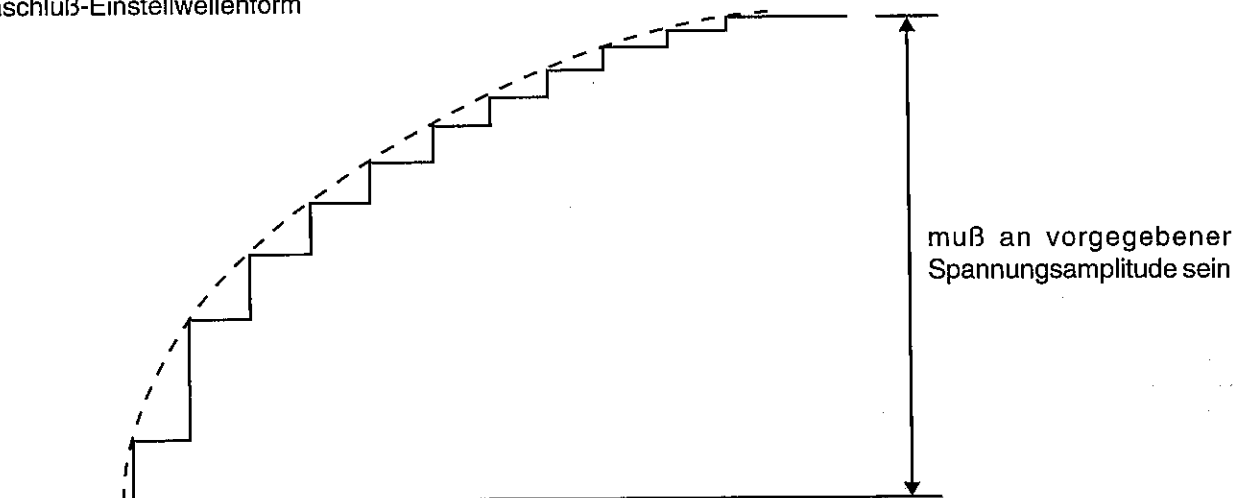


TABELLE FÜR STÖRUNGSSUCHE

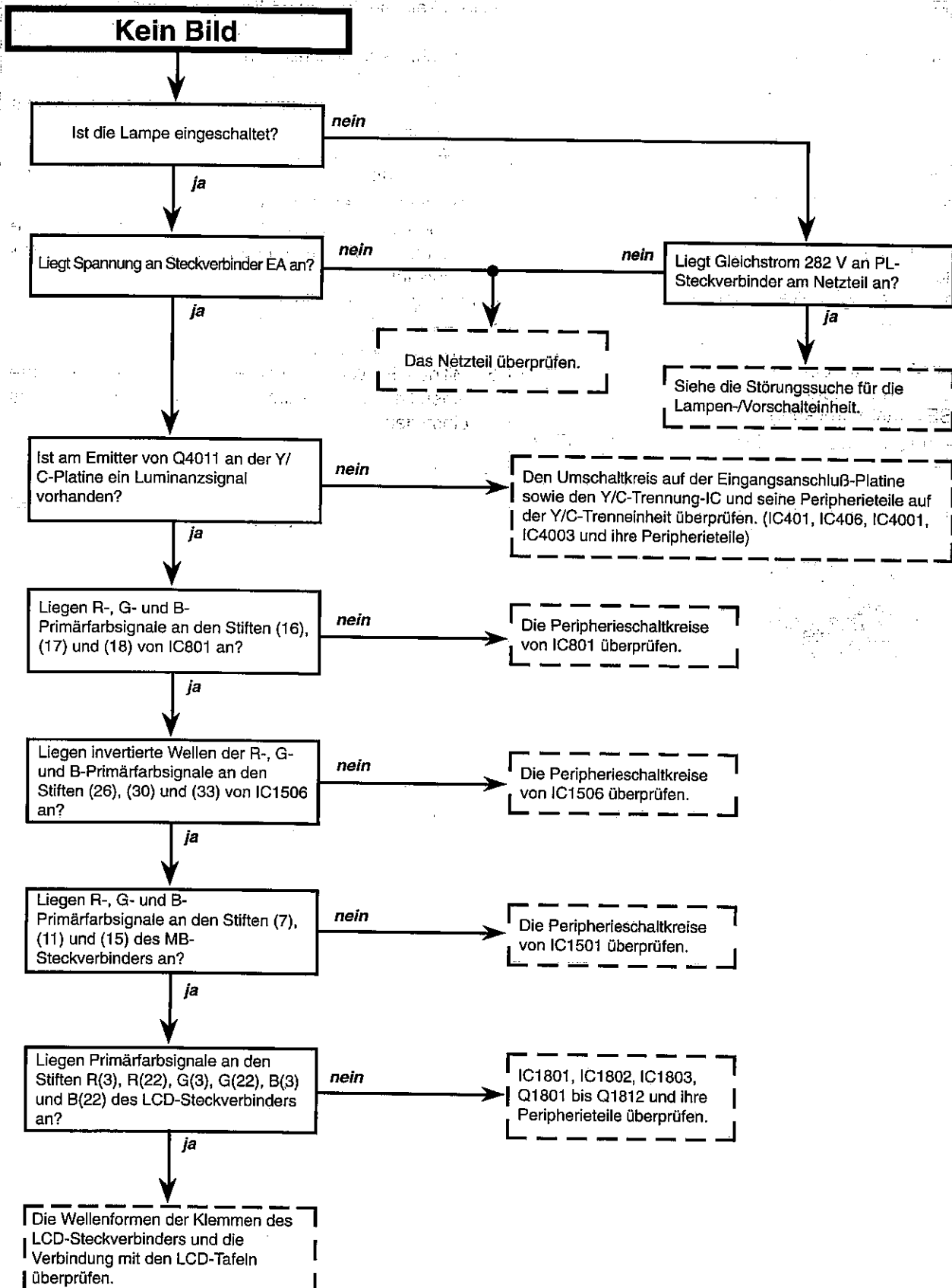
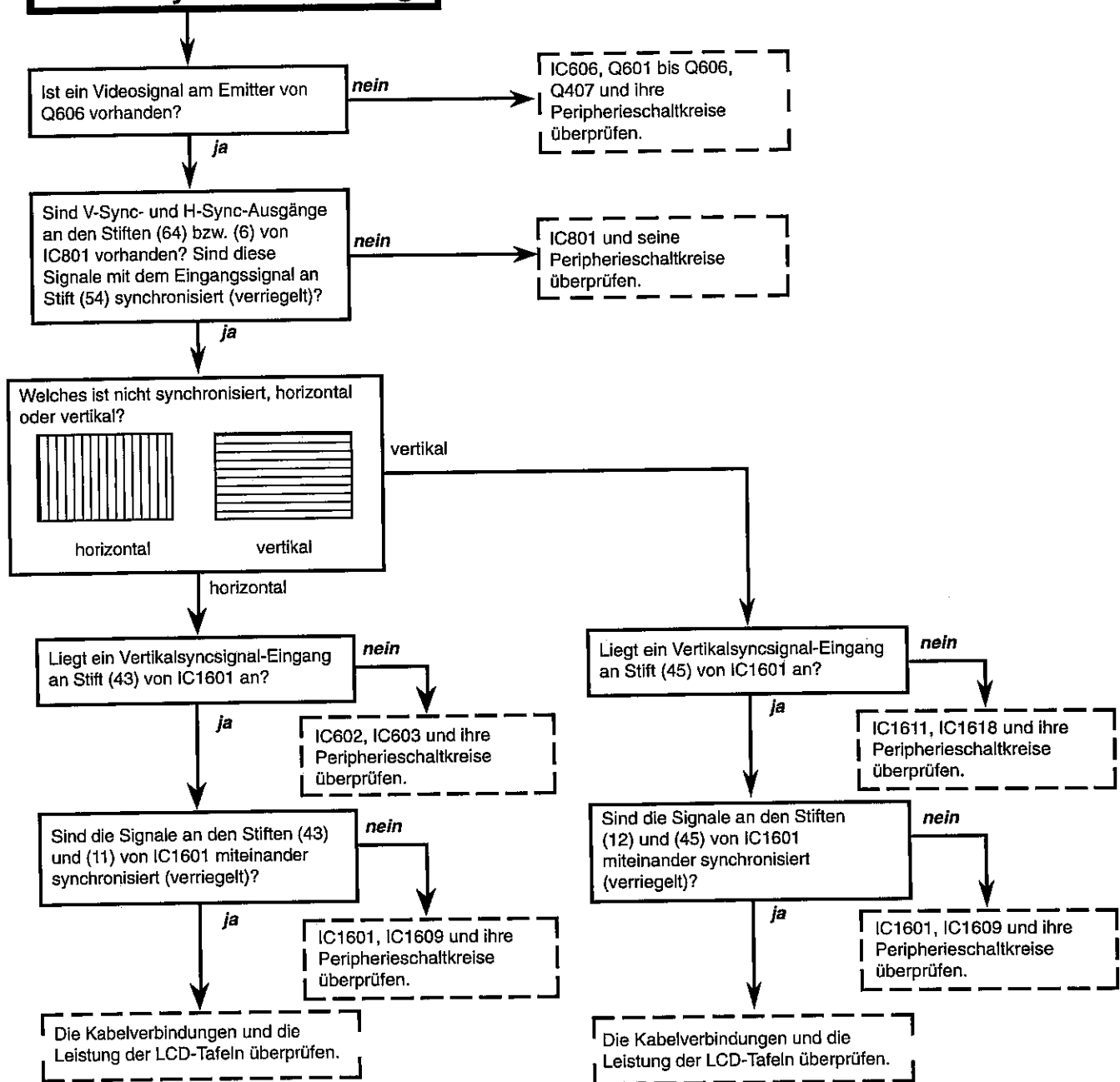


TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)

Keine Synchronisierung



Keine Farbe oder ungewöhnlicher Farbton

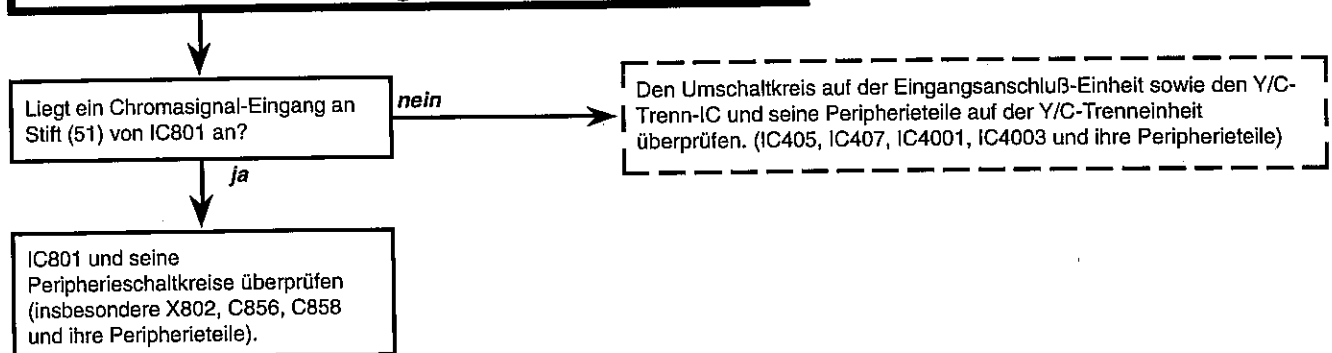


TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)

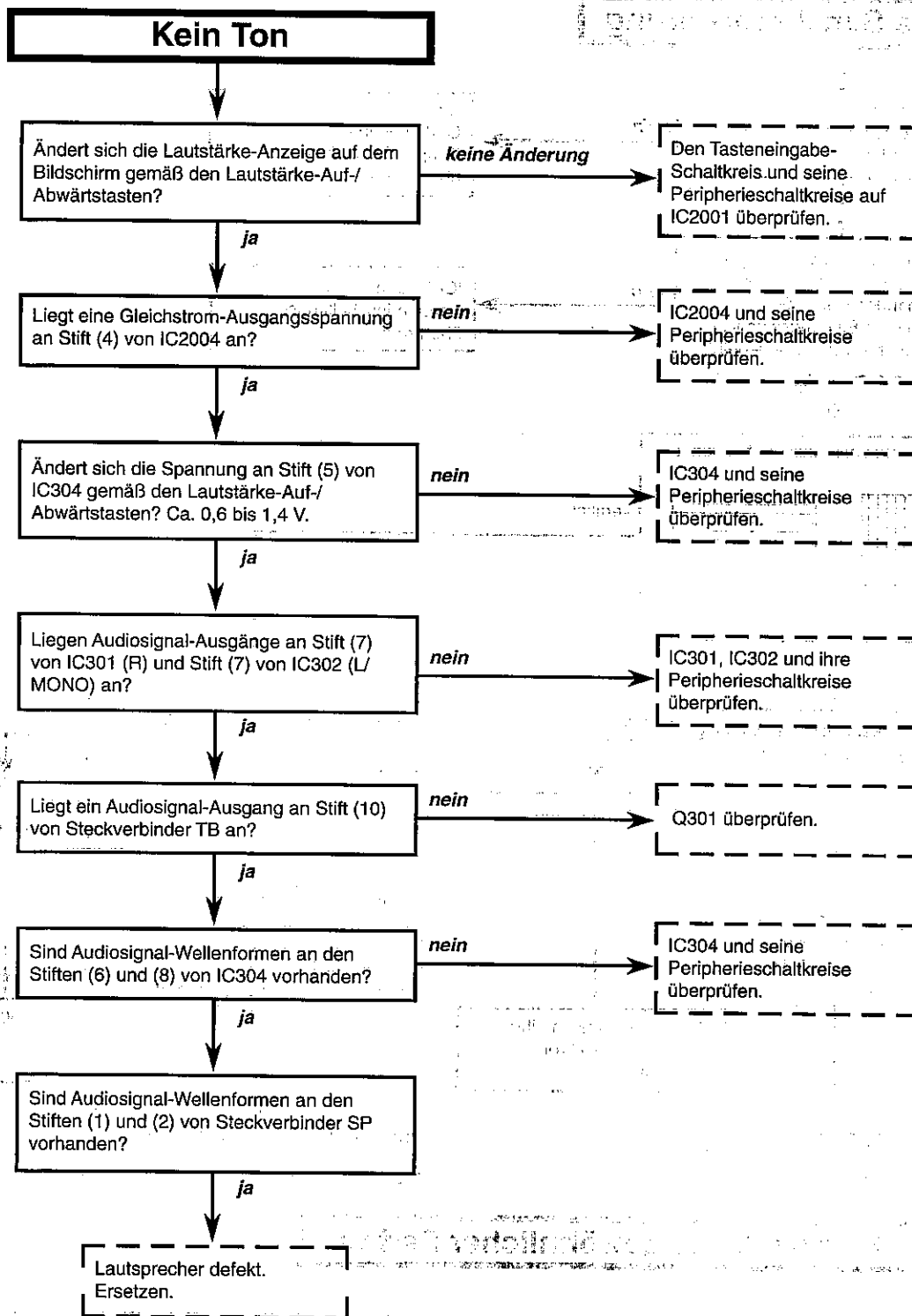
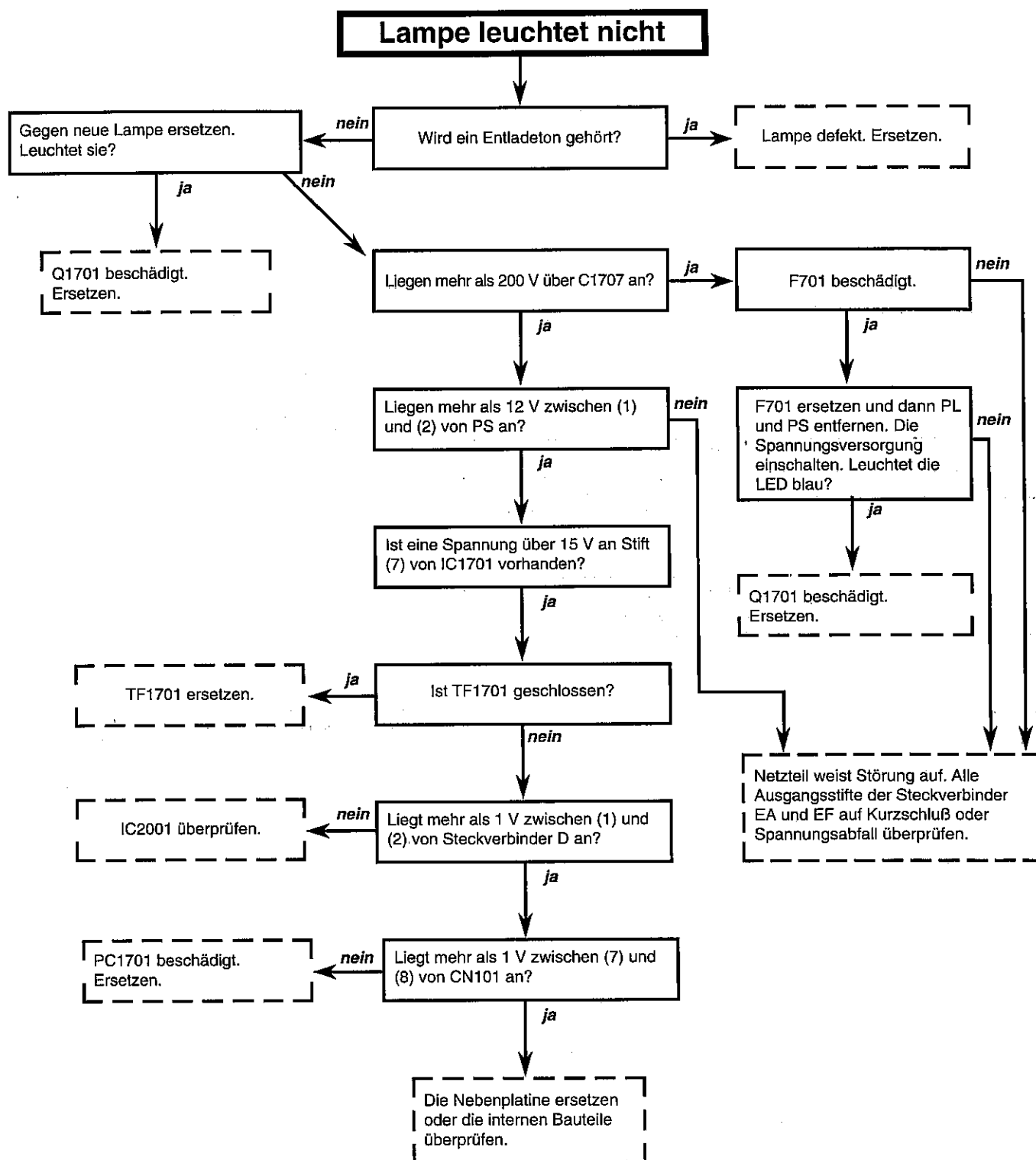
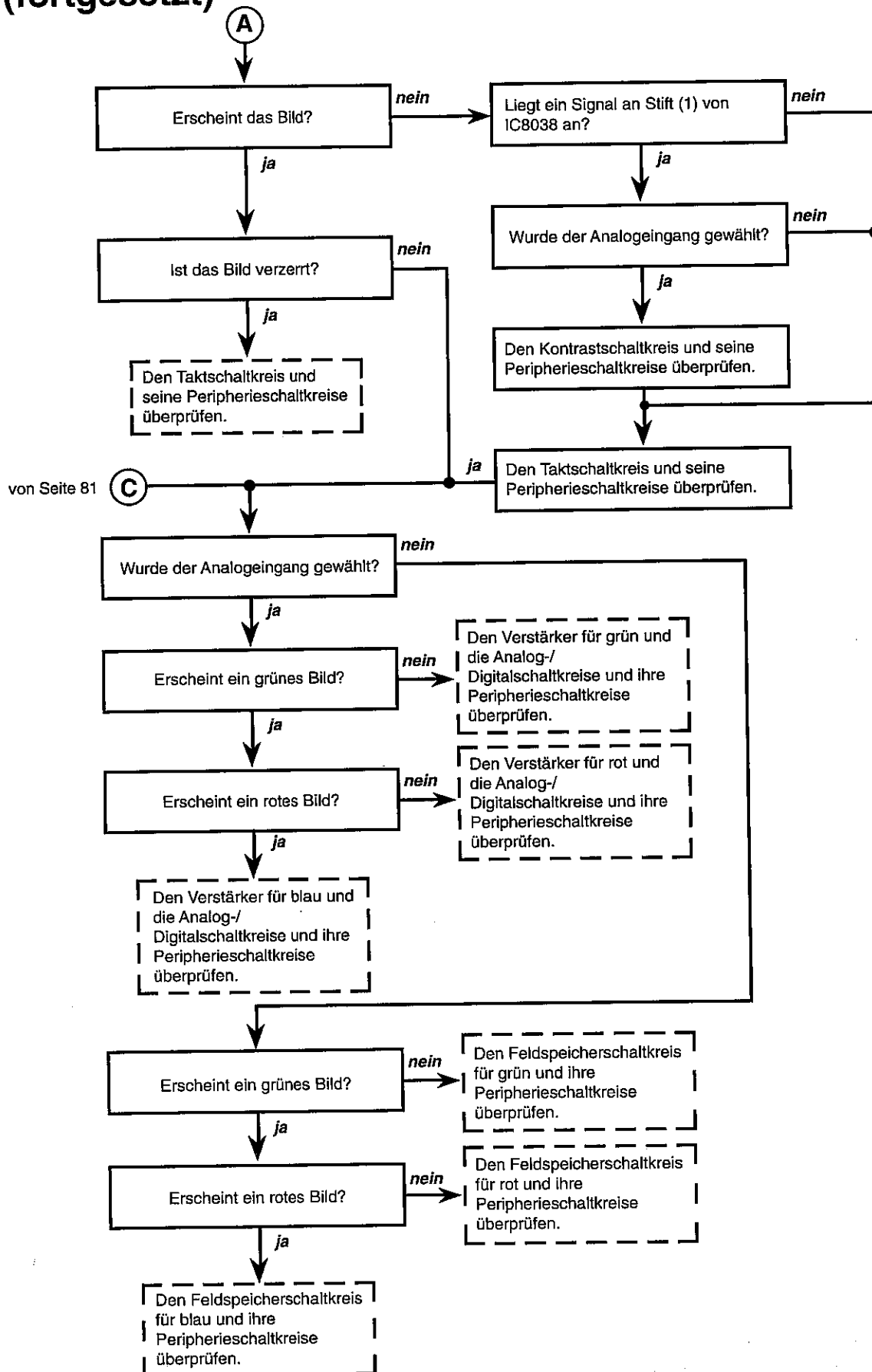


TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)

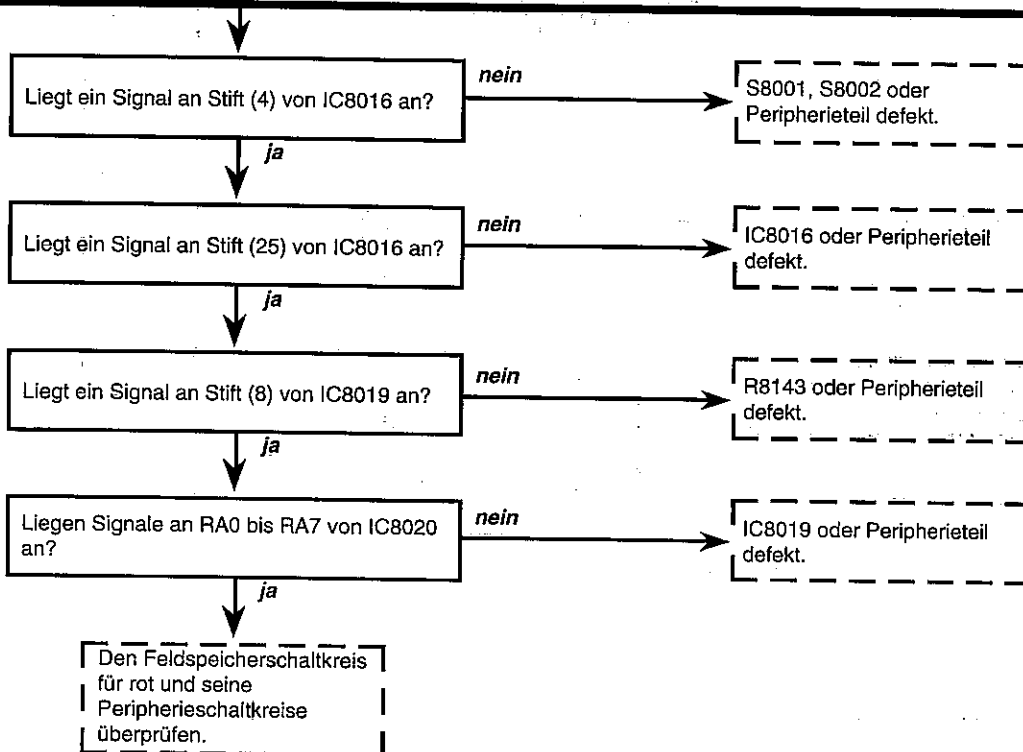


STÖRUNGSSUCHE FÜR DIE PC-SCHNITTSTELLENEINHEIT (fortgesetzt)

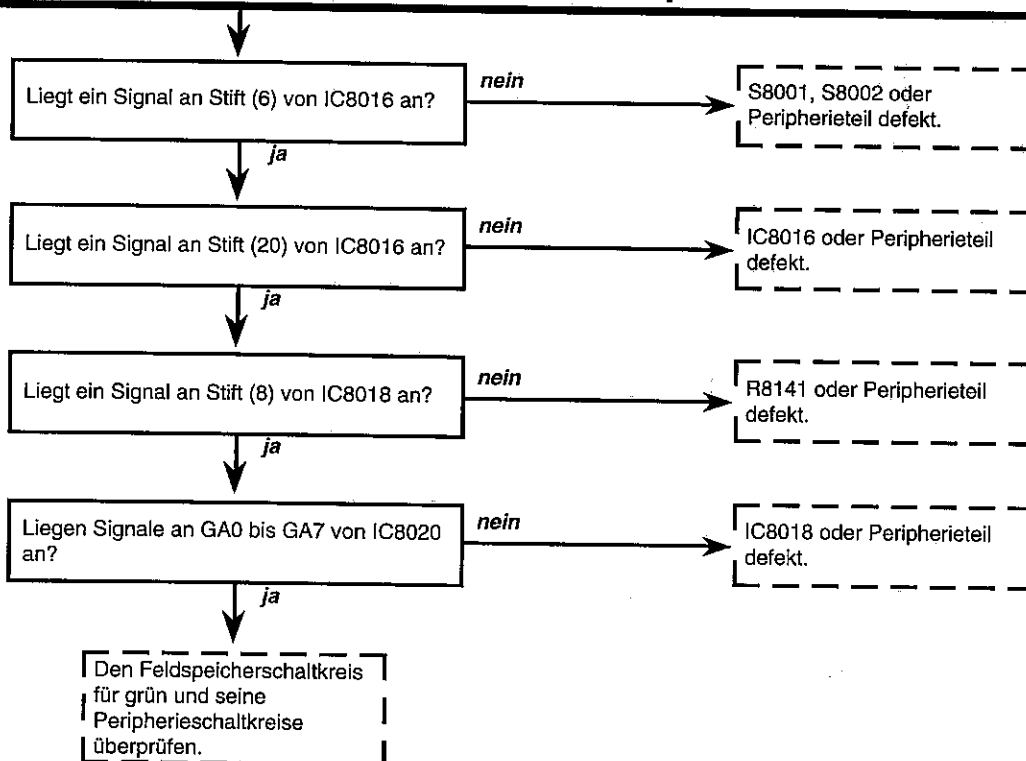


STÖRUNGSSUCHE FÜR DIE PC-SCHNITTSTELLENEINHEIT (fortgesetzt)

Den Verstärker für rot und die Analog-/Digitalschaltkreise und ihre Peripherieschaltkreise überprüfen.

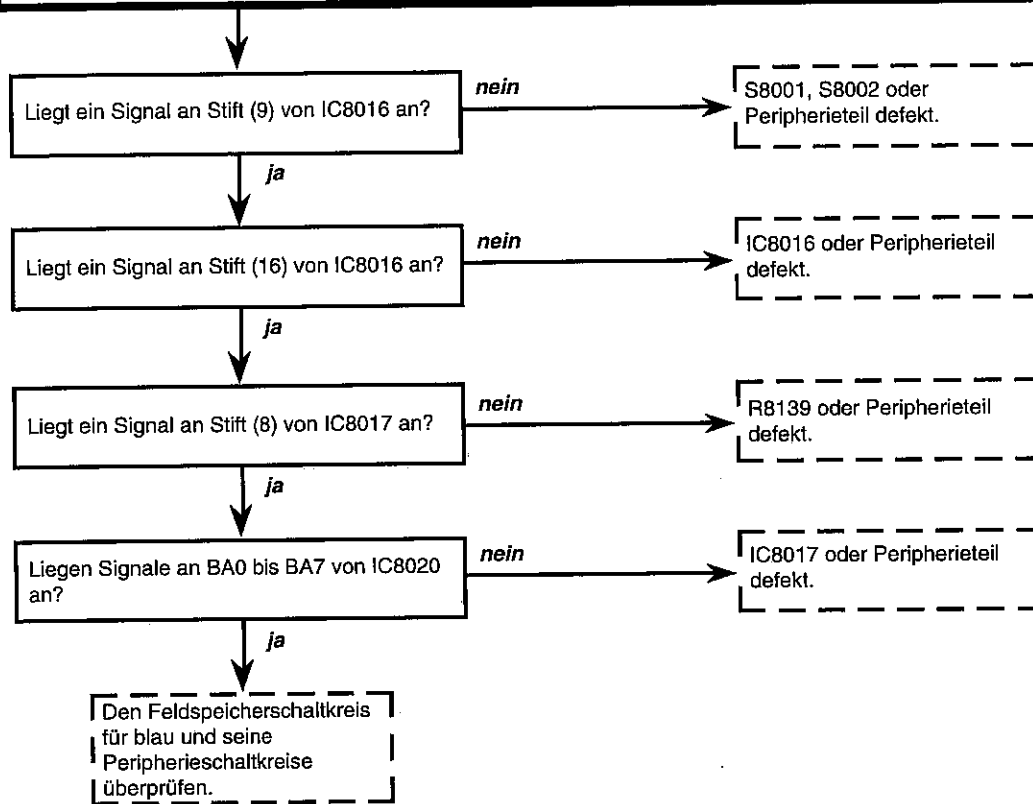


Den Verstärker für grün und die Analog-/Digitalschaltkreise und ihre Peripherieschaltkreise überprüfen.



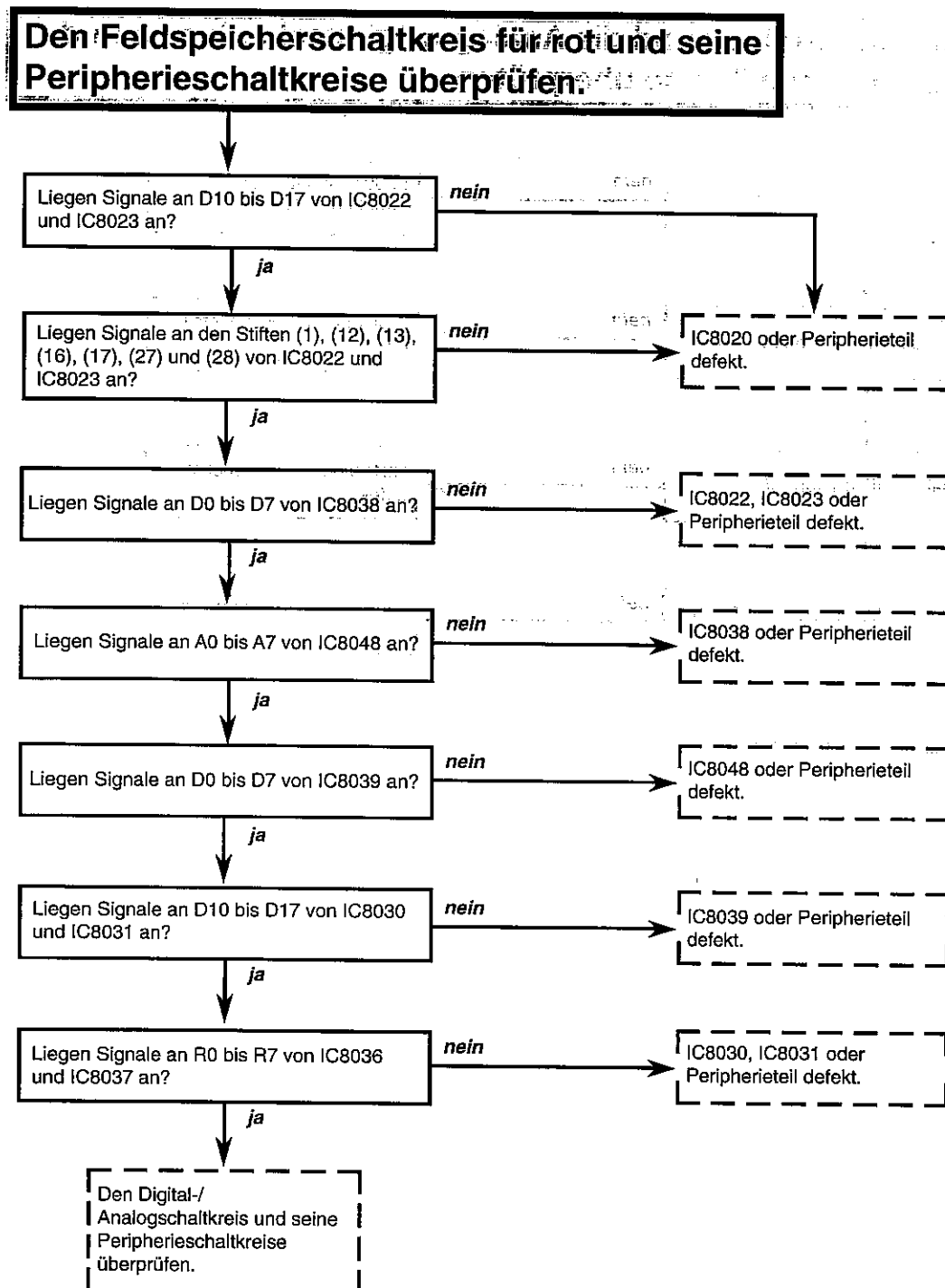
STÖRUNGSSUCHE FÜR DIE PC-SCHNITTSTELLENEINHEIT (fortgesetzt)

Den Verstärker für blau und die Analog-/Digitalschaltkreise und ihre Peripherieschaltkreise überprüfen.

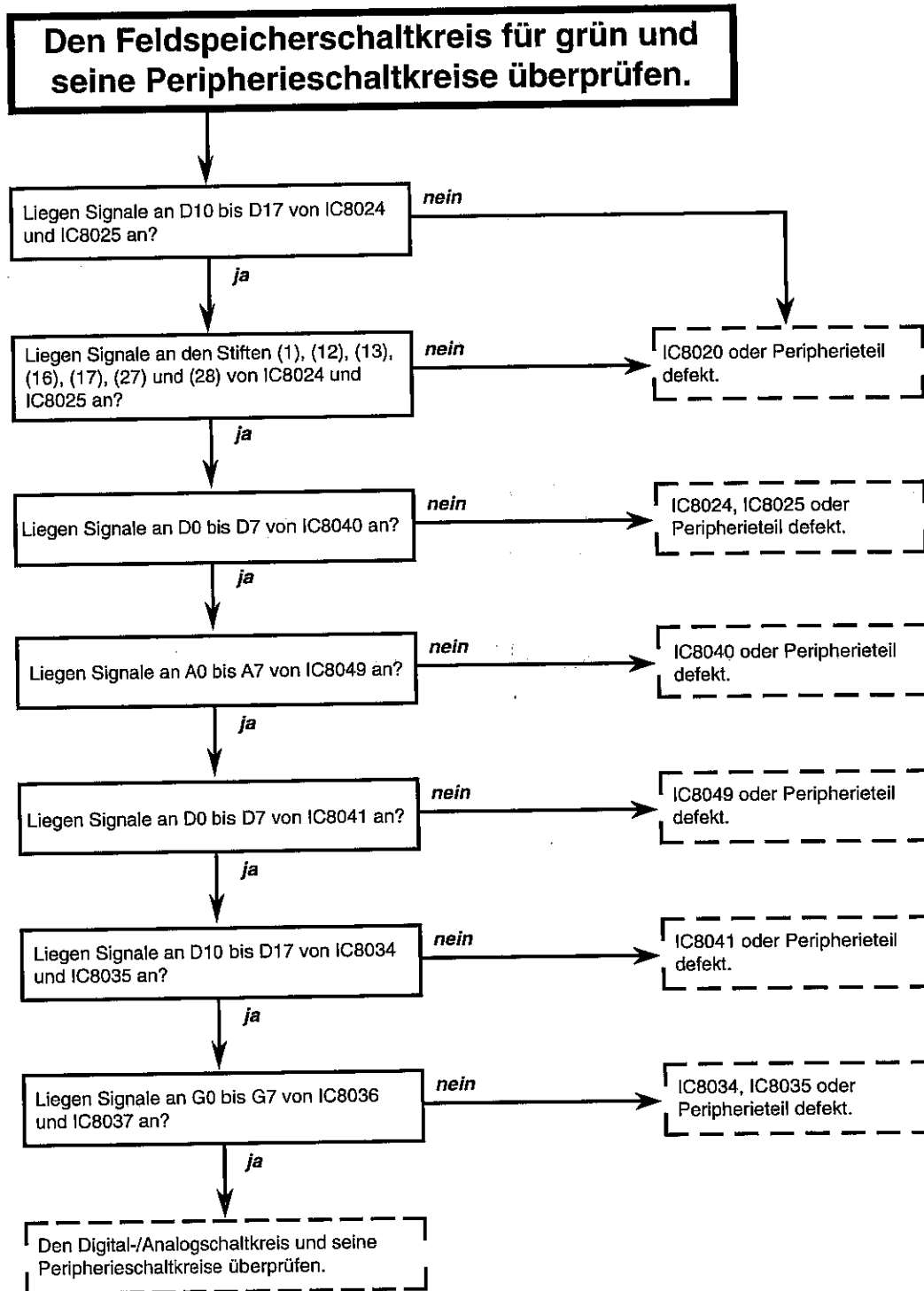


STÖRUNGSSUCHE FÜR DIE PC-SCHNITTSTELLENEINHEIT (fortgesetzt)

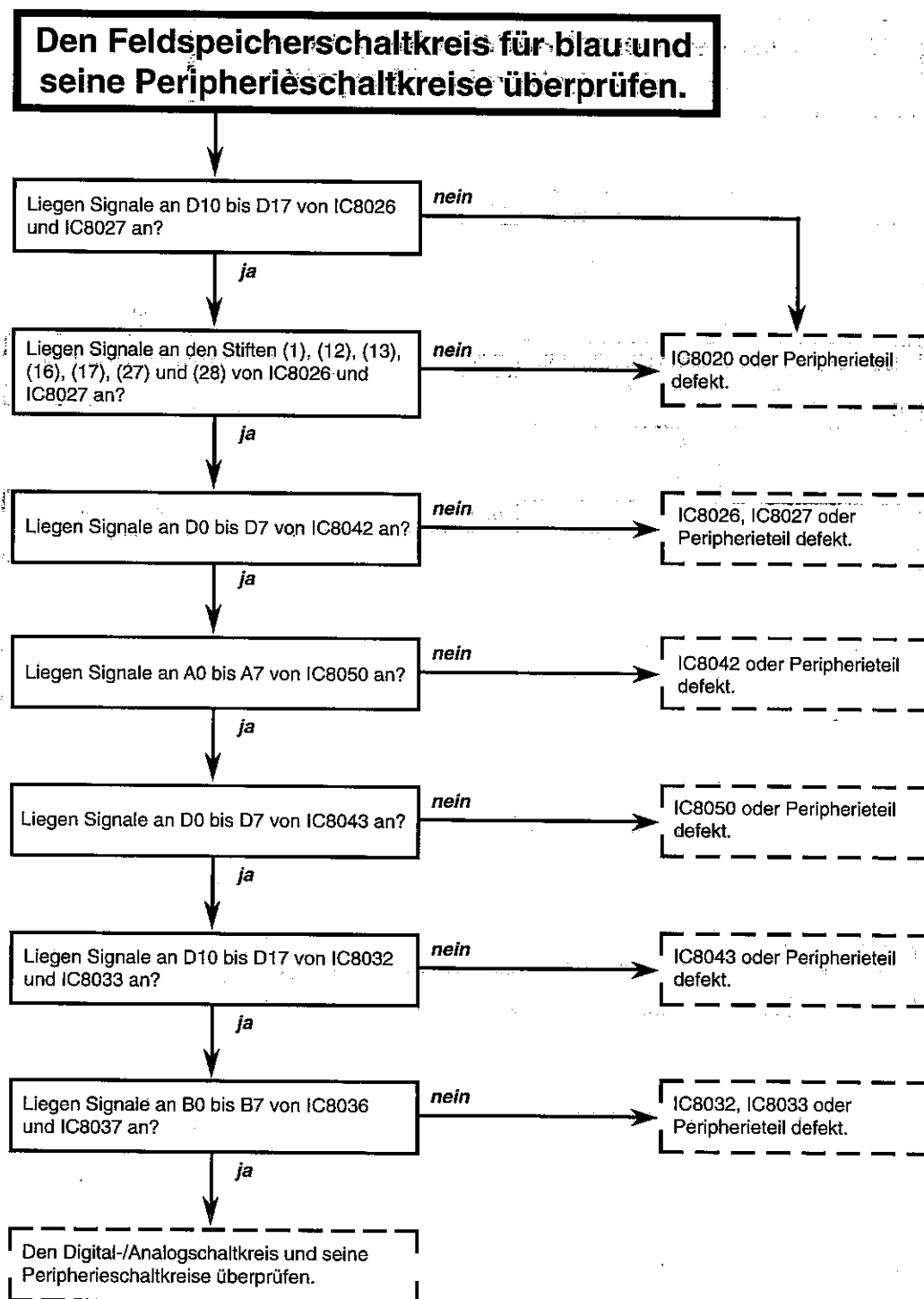
(Interaphot)



STÖRUNGSSUCHE FÜR DIE PC-SCHNITTSTELLENEINHEIT (fortgesetzt)

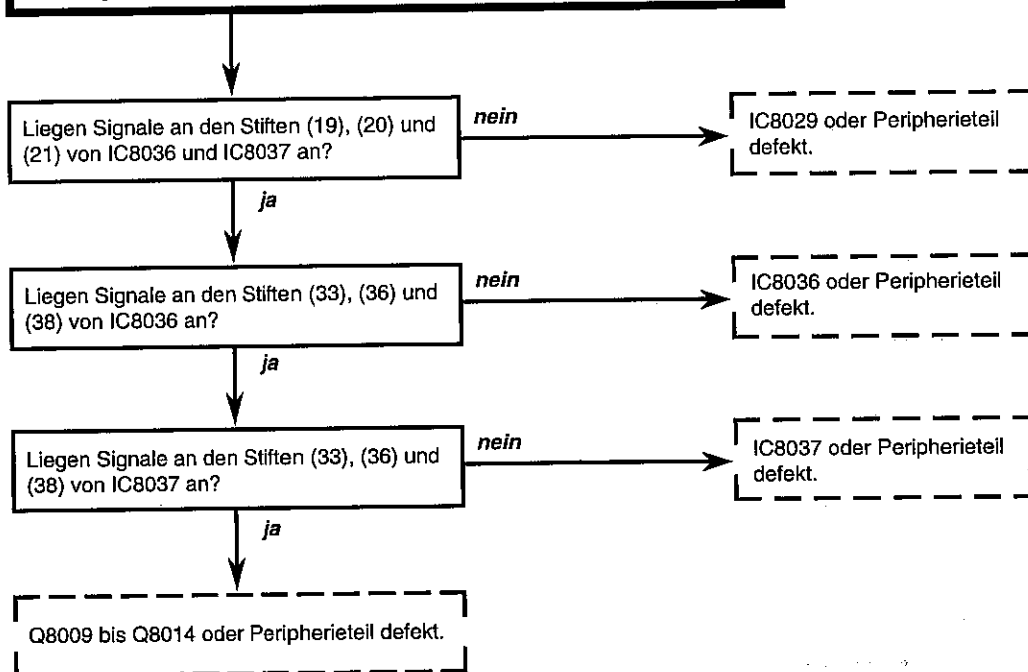


STÖRUNGSSUCHE FÜR DIE PC-SCHNITTSTELLENEINHEIT (fortgesetzt)

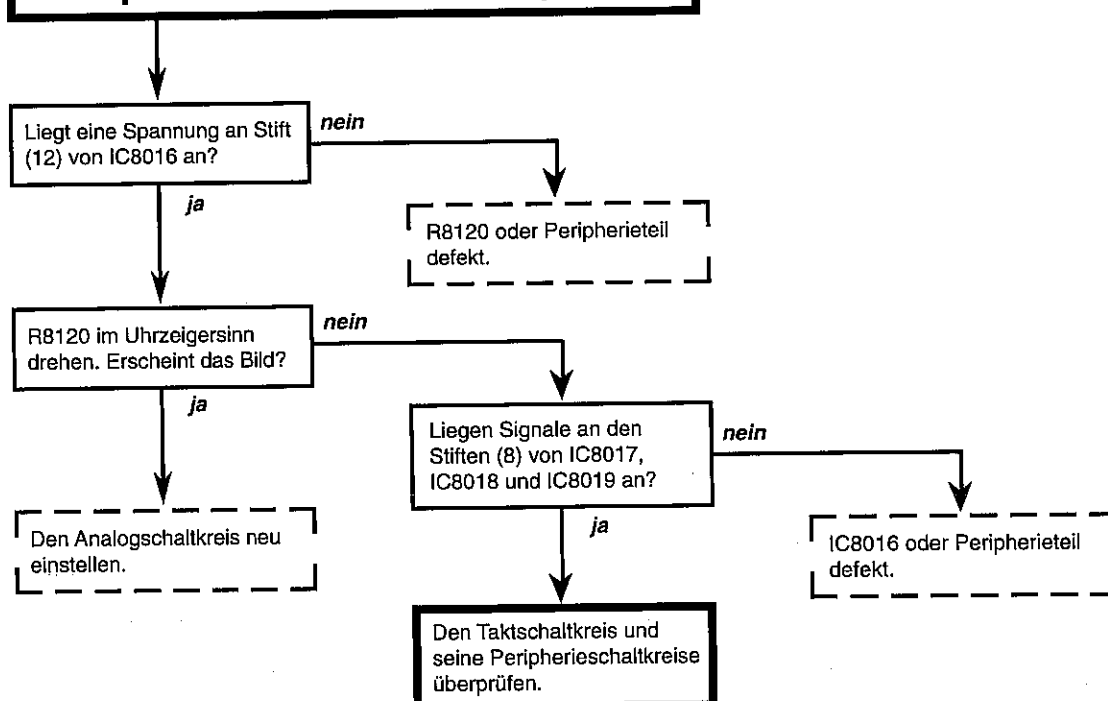


STÖRUNGSSUCHE FÜR DIE PC-SCHNITTSTELLENEINHEIT (fortgesetzt)

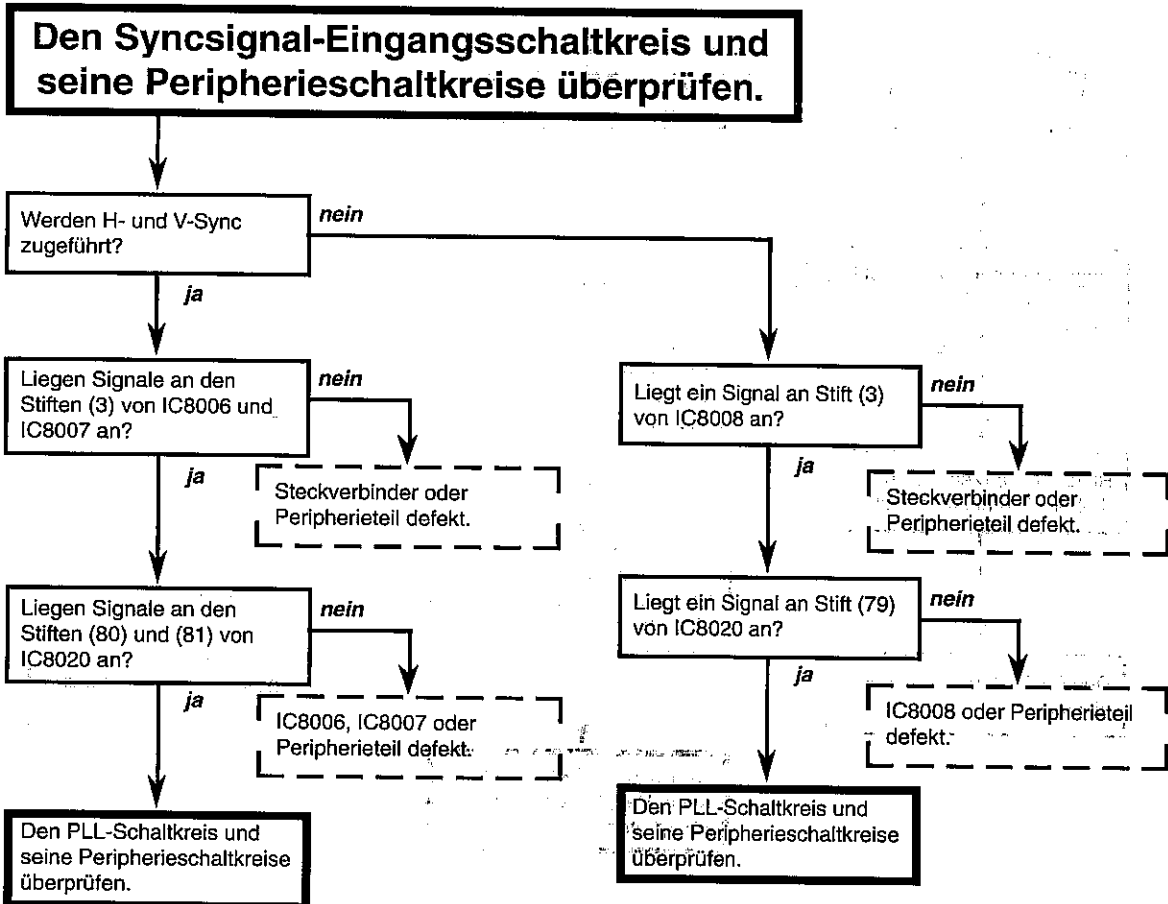
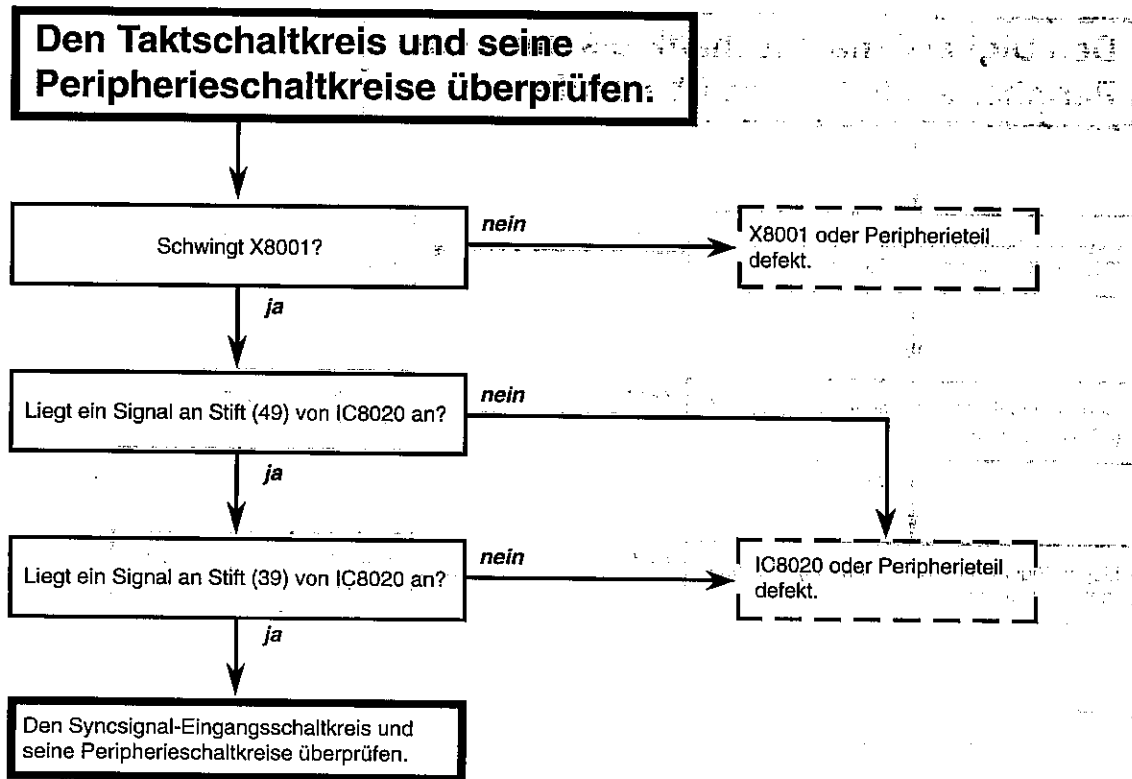
Den Digital-/Analogschaltkreis und seine Peripherieschaltkreise überprüfen.



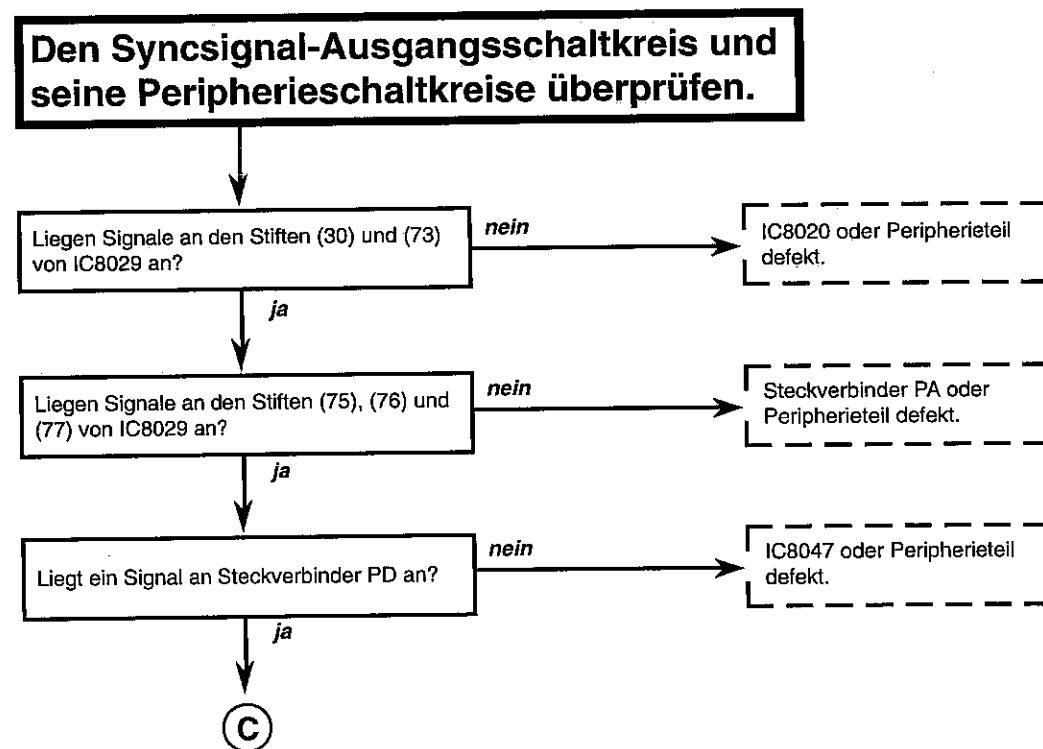
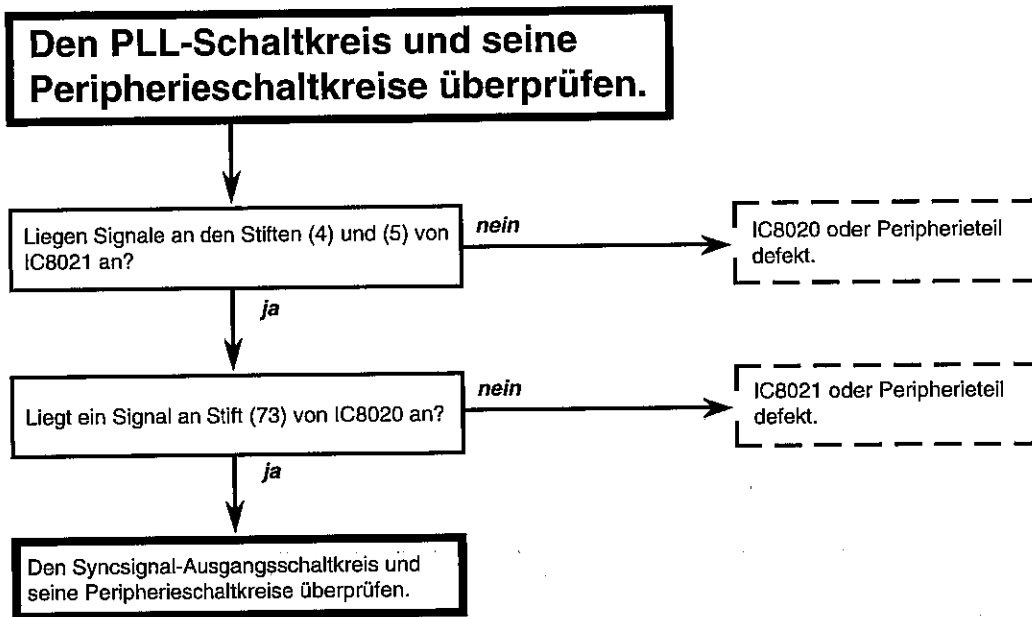
Den Kontrastschaltkreis und seine Peripherieschaltkreise überprüfen.



STÖRUNGSSUCHE FÜR DIE PC-SCHNITTSTELLENEINHEIT (fortgesetzt)

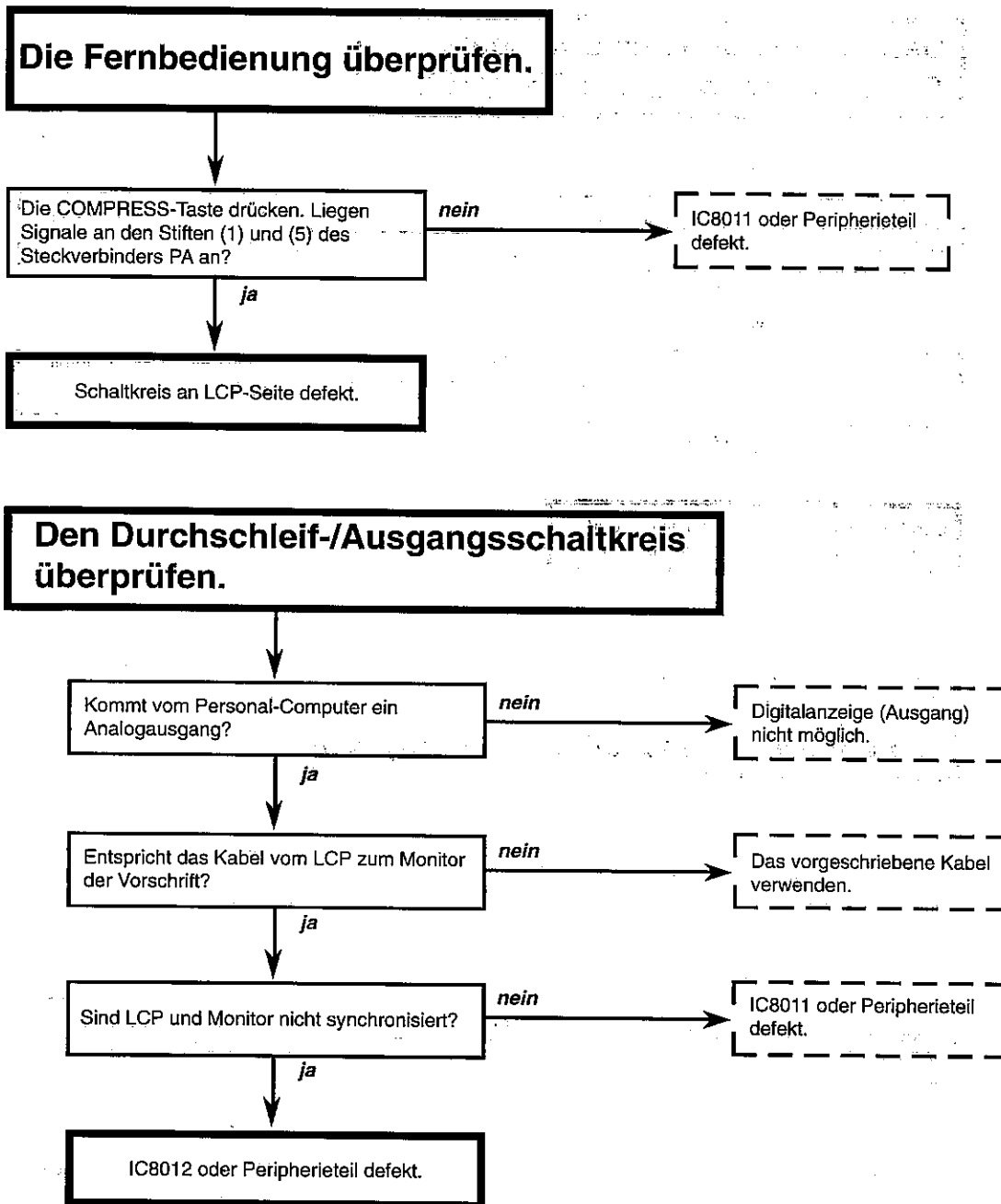


STÖRUNGSSUCHE FÜR DIE PC-SCHNITTSTELLENEINHEIT (fortgesetzt)



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STÖRUNGSSUCHE FÜR DIE PC-SCHNITTSTELLENEINHEIT (fortgesetzt)



規格參數

產品類型		液晶投影機
型號		XG-3900E / E
顯示方法		3塊液晶板, RGB三色光學色盤方法
制式		PAL/SECAM/NTSC 3.58/NTSC 4.43
液晶顯示板	尺寸	3" (長4.5厘米×寬6.2厘米)
	顯示方法	半透明TN水晶板
	驅動方法	薄膜晶體管(TFT) 活性矩陣板
	像素數量	309,120像素點×3塊
鏡頭		1~1.6變焦鏡頭, F=3.5~4.4, f=100~160毫米
投影燈泡		350瓦金屬鹵燈
反差比(對比度)		100:1
視頻輸入訊號		BNC連接器: 視頻, 複合視頻, 峰間值1伏, 負同步, 75歐姆終端 RCA連接器: 聲頻, 142毫伏有效值, 大於47千歐姆(立體聲)
S-視頻輸出訊號		4芯小型DIN連接插頭 Y(亮度訊號): 峰間值1伏, 負同步, 75歐姆終端 C(色度訊號): 脈衝峰間值0.286伏, 75歐姆終端
視頻(顯示機)訊號		BNC連接器: 視頻, 複合視頻, 峰間值1伏, 負同步, 75歐姆終端 RCA連接器: 聲頻 142毫伏有效值, 大於47千歐姆(立體聲)
水平解像度		500行電視掃描
聲頻輸出		3瓦(單耳聲)
電腦RGB輸入訊號	視頻訊號	15芯小型D-sub連接插頭: RGB分離型模擬輸入: 峰間值0~0.7伏, 正極, 75歐姆終端 RCA插口: 聲頻, 142毫伏有效值, 大於47千歐姆(立體聲)
	水平同步訊號	三極管電平(正極/負極)或復合同步(僅限蘋果機種)
	垂直同步訊號	
RGB視頻輸入訊號	視頻訊號	BNC連接器: RGB分離型模擬輸入: 峰間值0~0.7伏, 正極, 75歐姆終端 RCA插口: 聲頻, 142毫伏有效值, 大於47千歐姆(立體聲)
	復合同步訊號	TTL 電平
揚聲器		3" (8厘米) 圓形
電壓		交流200~240伏
電頻		50/60赫
耗電量		360瓦
工作溫度		攝氏5度~40度
儲藏溫度		攝氏零下20度~55度
外殼		塑膠
尺寸(寬×深×高)		機體550×471×230毫米, 加罩蓋550×538×230毫米
重量		機體15.7公斤, 加罩蓋16.0公斤
隨機附件		遙控器、4節AA電池、鏡頭蓋(已裝於鏡頭)、倒貼標籤、預備空氣過濾器、端子罩蓋、VGA接線、高架防塵罩、4個繞線腳、2個球面轉接插頭(BNC/RCA) Mac/VGA連接插頭
另售附件		遙控器、空氣過濾器、VGA接線、Mac/VGA連接器

本投影機使用了液晶顯示板。這些非常精密的顯示板裡共含有390,120個三色像素的薄膜管。任何高技術電子設備, 如大屏幕電視機、錄影系統及攝錄機等, 都允許有一定的誤差範圍存在。
SHARP公司認的誤差度允許存在不起作用的薄膜晶體管的總數為6個, (包括黑點), 它們在銀幕上表現為亮點。但是, 這並不影響圖像質量及投影機的使用壽命。

*規格參數若有變更, 恕不另行通知。

保养维修人员须知

紫外线辐射注意事项

本液晶投影机的光源—金属检卤灯使用时会产生少量的紫外线辐射。

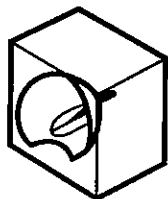
防止眼睛和皮肤的直接曝射。

为保证安全，务请遵守下列注意事项：

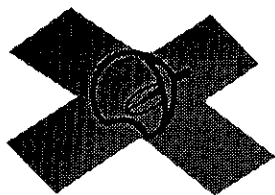
1. 揭去投影机顶盖并打开金属检卤灯进行检查维修时，务请戴用太阳墨镜。



2. 切勿随意修弄金属检卤灯灯室外壳。



3. 揭去投影机顶盖的保养维修不得超过2小时以上。



紫外线辐射与中压灯的注意事项

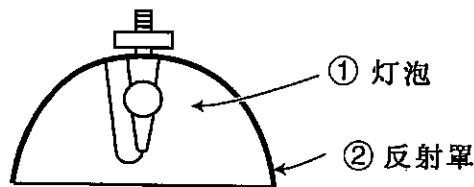
1. 更换中压灯前，请先拔除电源插头。
2. 保养维修该装置前，请先让其冷却一小时以上。
3. 更换中压灯只得用同类型号者：
CLMPF0034DE07， 额定值65V/350W。
4. 该灯点亮时有少量紫外线辐射发生，切勿直接曝照裸眼。
5. 中压灯有引起爆炸之危险。安装、保养及维修时，务请按下述要求谨慎处理之。

金属检卤灯的更换注意：

该灯于点亮时所达温度极高。因此，更换该灯至少应在关灯后一小时再进行。（让该灯充分冷却。）

用手安装新灯时，只得抓握检卤灯反射罩②进行安装，切勿用手触碰灯泡电珠。

〔更换新灯只得用规定正品。〕



危险！ 一没安装金属检卤灯时，不得打开电源开关。因为引入电源后，稳压器便随即发生极高的电压，足以引起人身高压触电或装置损坏的危险。

揭开机壳进行维修时，少量的紫外线可从导管盖和灯室间的开口处辐射而出。因此，必须用镜头盖按下图（图1）所示遮住导管盖和灯室间的开口，以防紫外线辐射造成眼睛或皮肤的受伤。

注意：对未附带镜头盖的型号XG-3900E/E国作保养及检修时，必须先准备镜头盖，盖上后进行之。

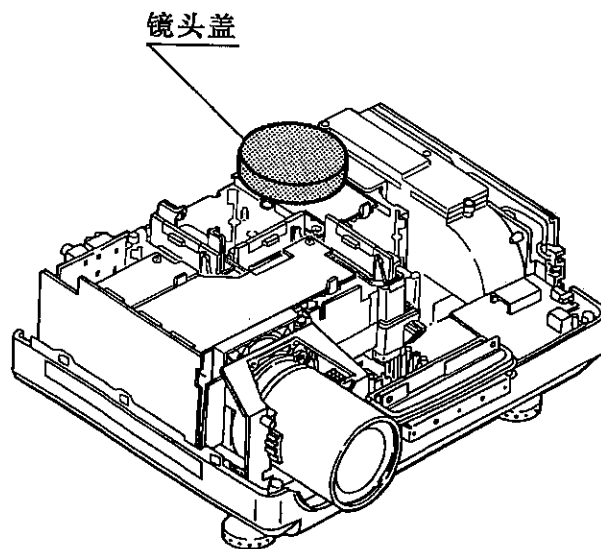
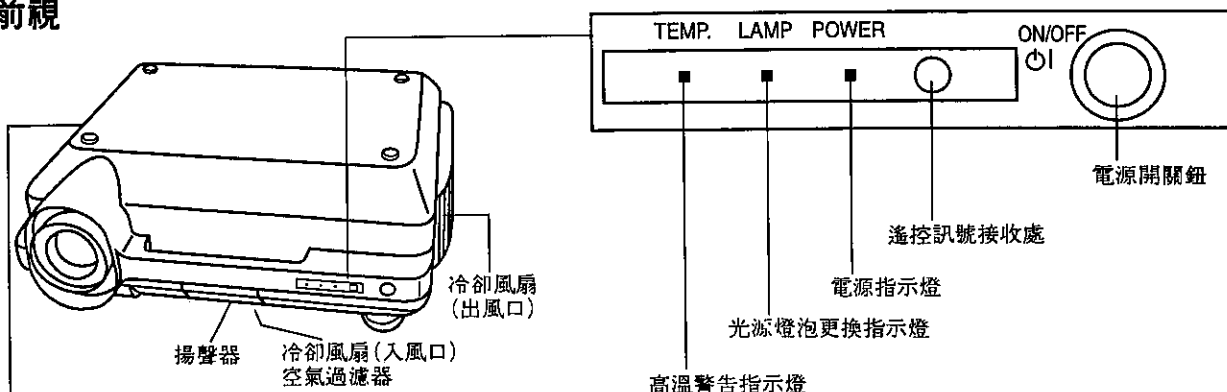


图1

控制鈕的位置

前視



注意：

- 放置投影機時，要使冷卻風扇部分(出風口)與牆壁保持10厘米以上的距離。
- 如果冷卻風扇被堵塞，機內的保護電路就會啟動，光源(燈泡)隨之便熄滅。這種情況不屬於故障，因此，只要將電源插頭從插座上拔下，並等待10分鐘左右，再將電源插上即可恢復正常。

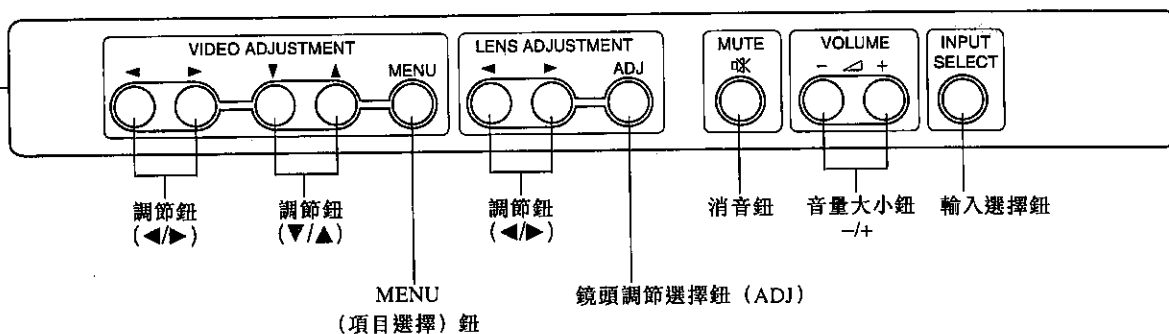
投影機側面操作板

夜光性顯示器

為了容易觀看，在右邊的操縱用夜光性顯示器。當露出環繞光線的時候，夜光性顯示器會在黑暗發光。

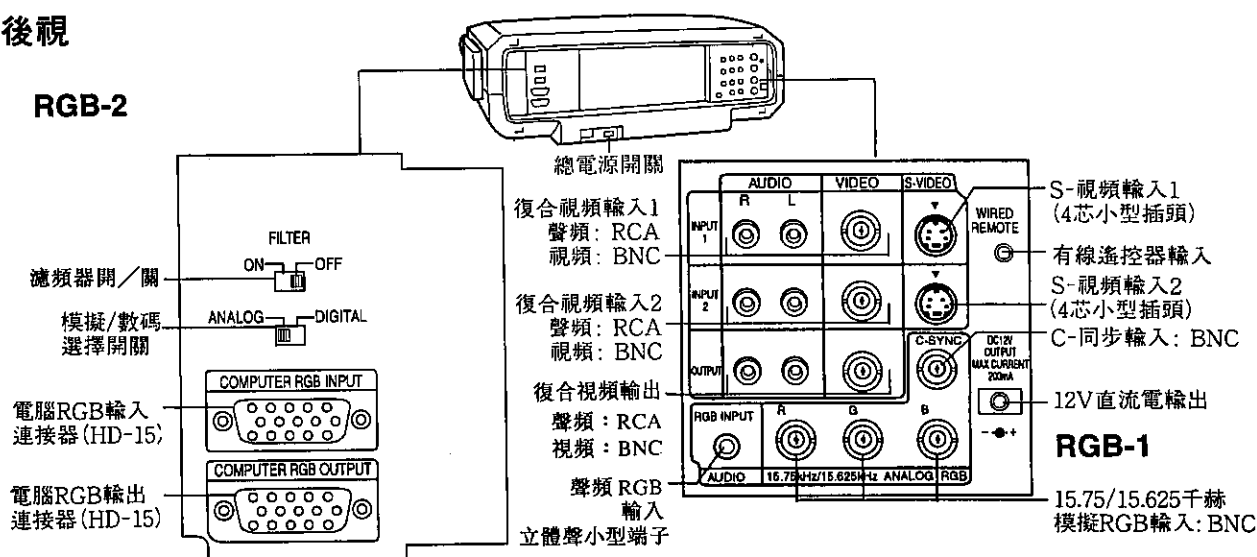
(發光率) 當露出太陽光或者高於500勒克司的其他光線大約10分鐘左右時，顯示器會發光持續1小時。

(注意：500勒克司=1~1.5m直接低於一個40W的熒光燈。)



後視

RGB-2



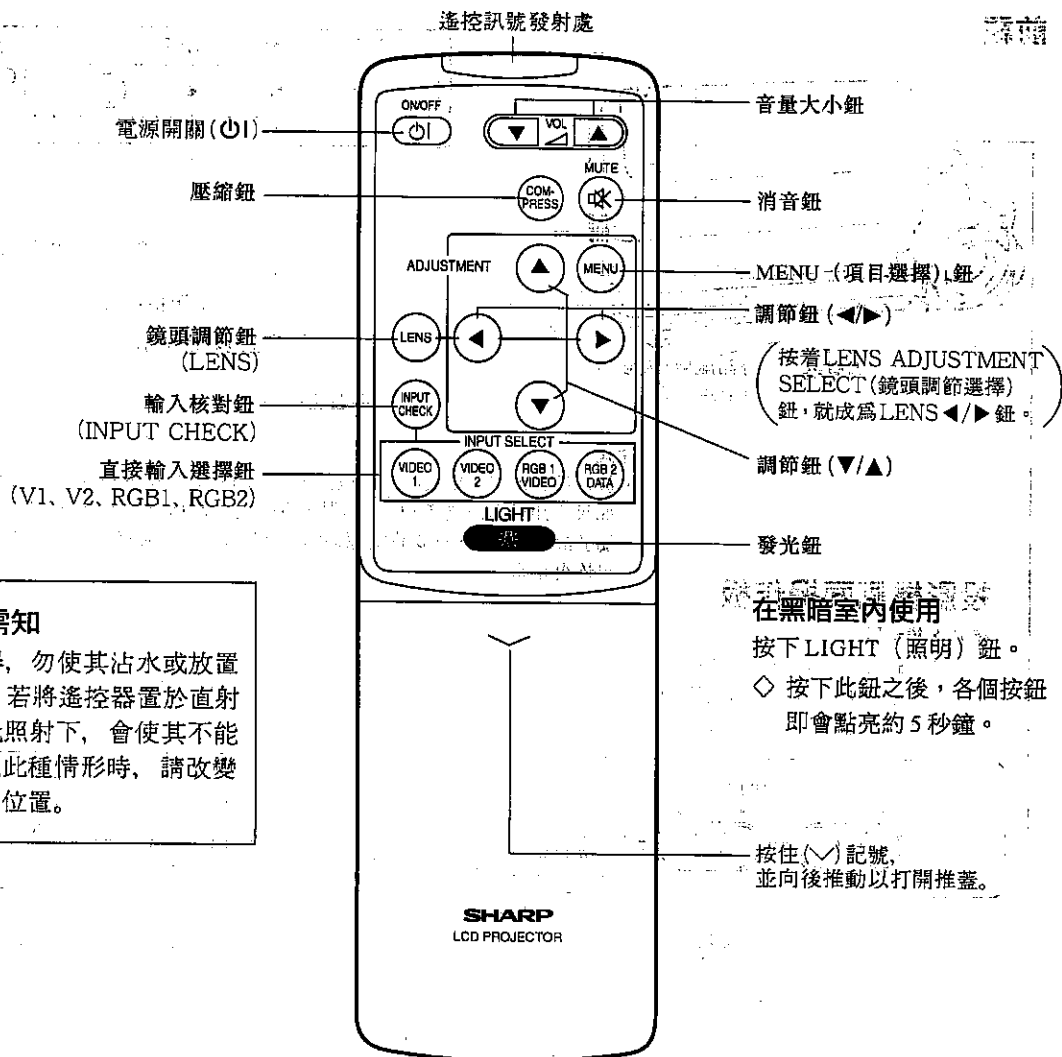
注意：

- 當大於200毫安的電流通過12V直流電輸出口時，投影機的安全裝置將啟動，自動關閉投影機並使其進入待機狀態。

遙控器的使用方法

遙控器

遙控器



使用遙控器需知

切勿摔碰遙控器，勿使其沾水或放置在潮濕的地方。若將遙控器置於直射陽光或其他強光照射下，會使其不能正常工作。出現此種情形時，請改變光源或遙控器的位置。

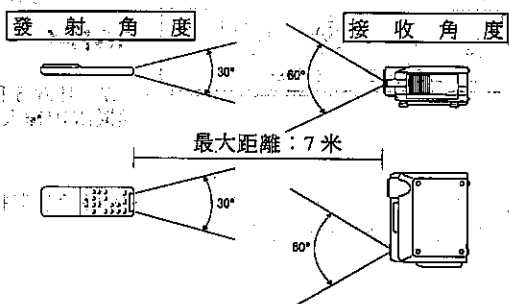
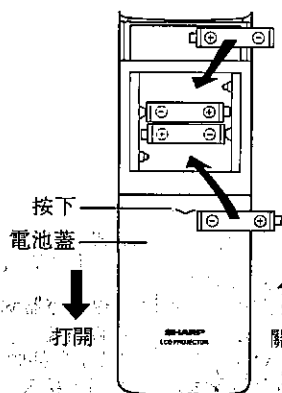
安裝電池

如圖所示卸下電池蓋，裝入 4 節 AA 型電池。務請注意電池之極性必需符合電池槽內之 (+) 和 (-) 的標記。

註：

電池使用不當會造成漏液或爆裂。

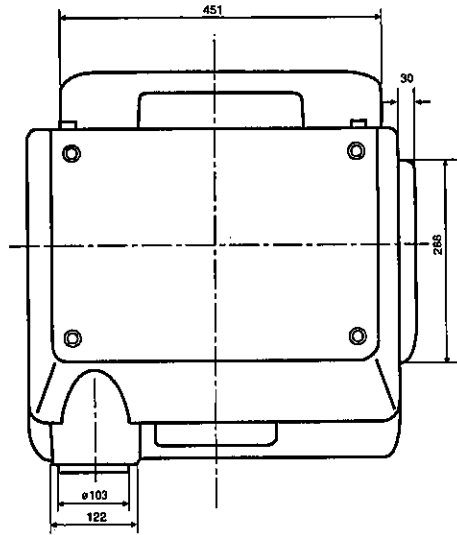
- 插入電池時必須使其極性與電池槽內標出的極性 (+)、(-) 相一致。
- 若長期不用遙控器，應將電池取出。注意保持電池乾淨。
- 始終保持電池的乾淨。
- 切勿將商標不同的電池混合使用。新舊電池的混合使用會使新電池的壽命縮短，而舊電池則會漏液。
- 當電池耗盡之後，應立刻取出以防漏液損傷遙控器。漏出的電池液體對皮膚有刺激，擦拭時應用乾布。
- 由於隨機附件的電池受庫存條件及庫存時間影響，可能會在短時間內用完。應盡早更換新的電池。



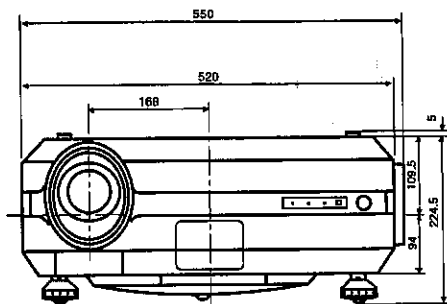
遙控器的操作

◇ 遙控器的操作按左圖所示。

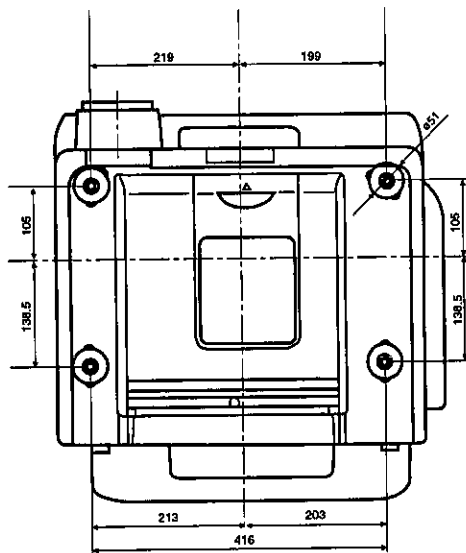
外型尺寸圖



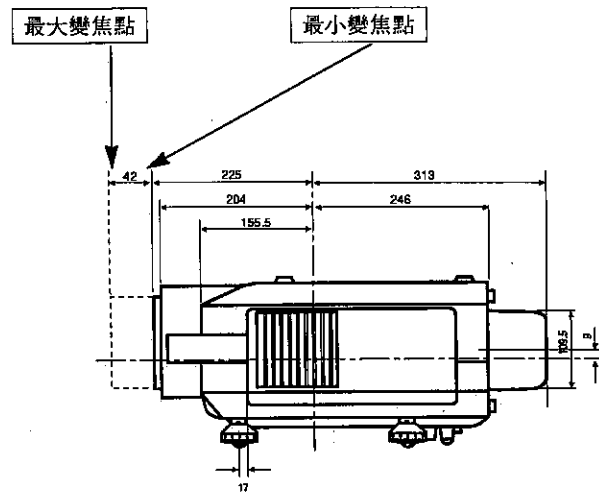
俯視圖



正視圖



仰視圖



側視圖

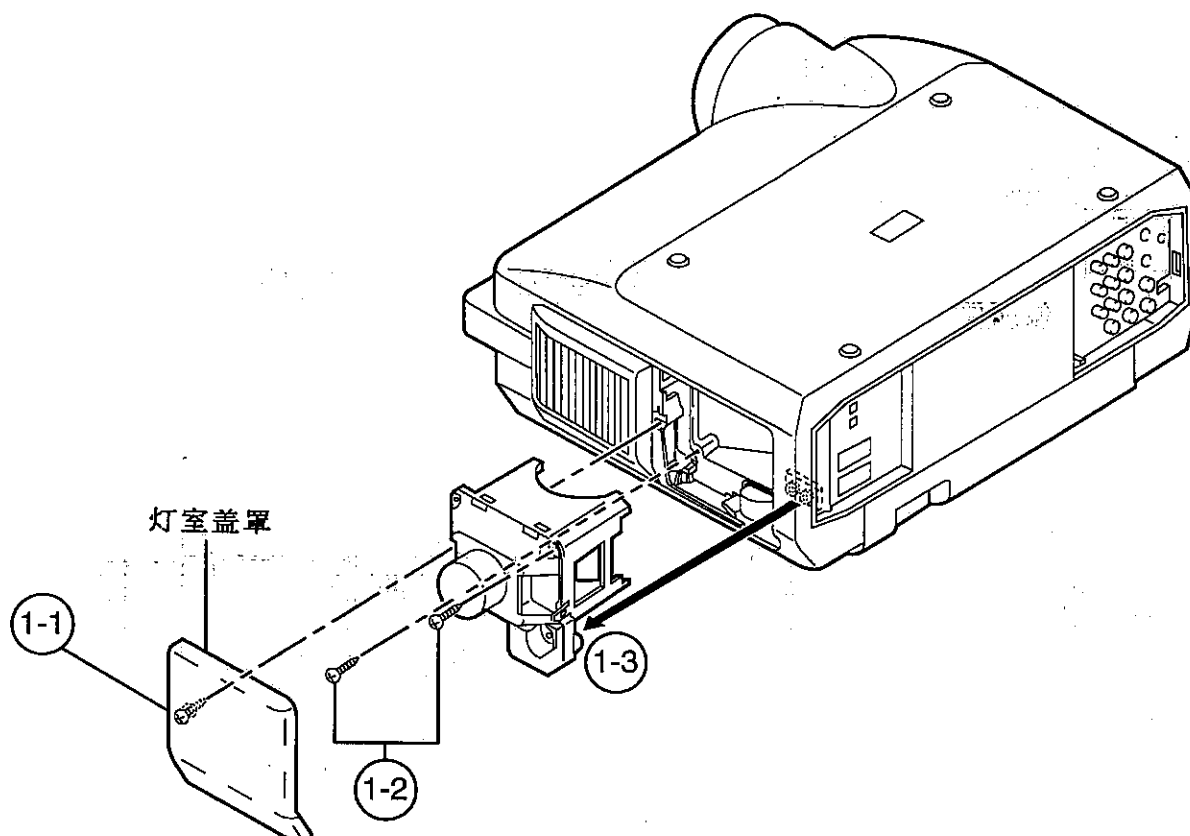
單位 mm(毫米)

主要部件的拆卸

投影机

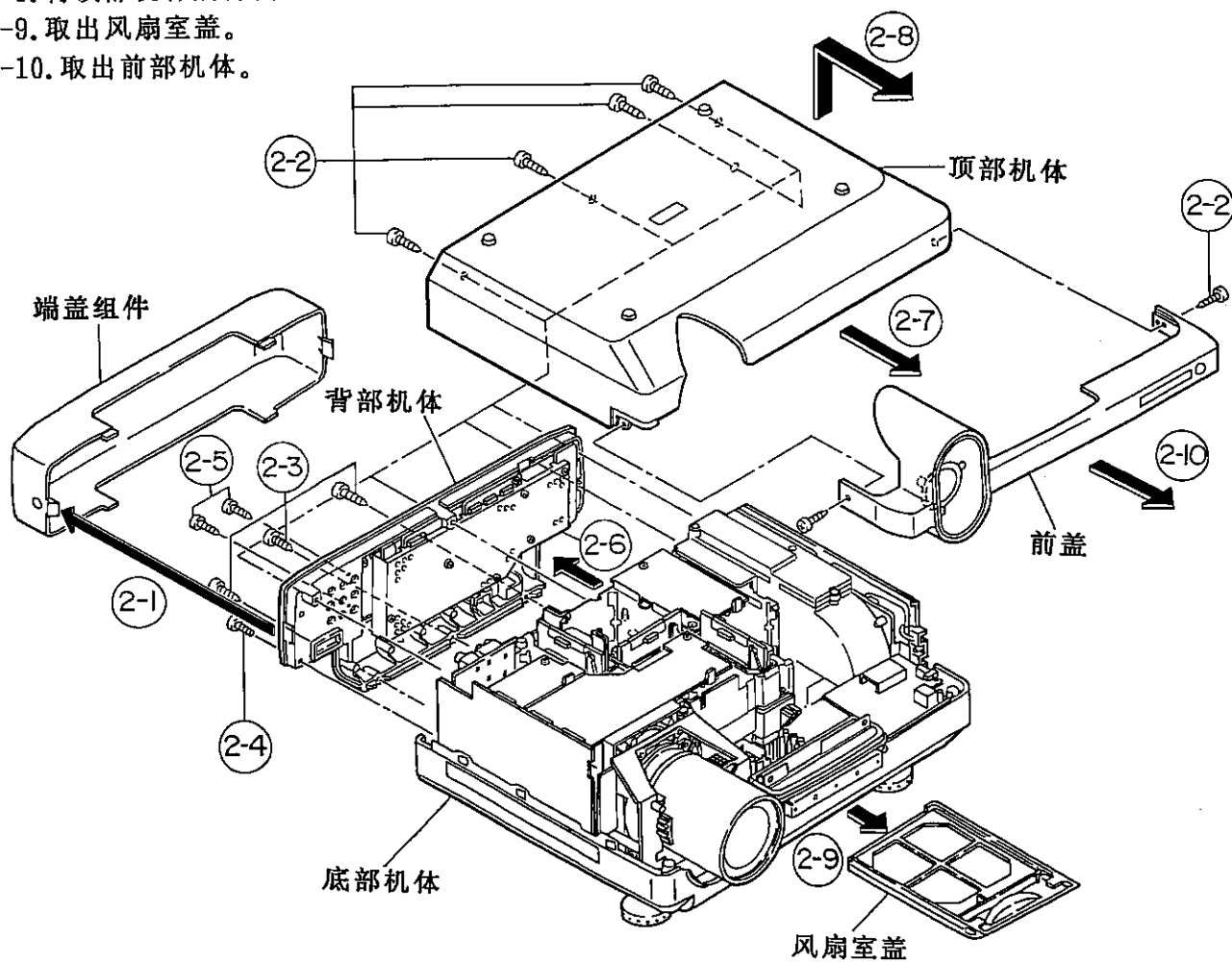
1. 投影灯装置的拆卸

- 1-1. 松去灯室盖罩的固定螺丝，取下灯室盖罩。
- 1-2. 松去投影灯装置的两支固定螺丝。
- 1-3. 取下投影灯装置。



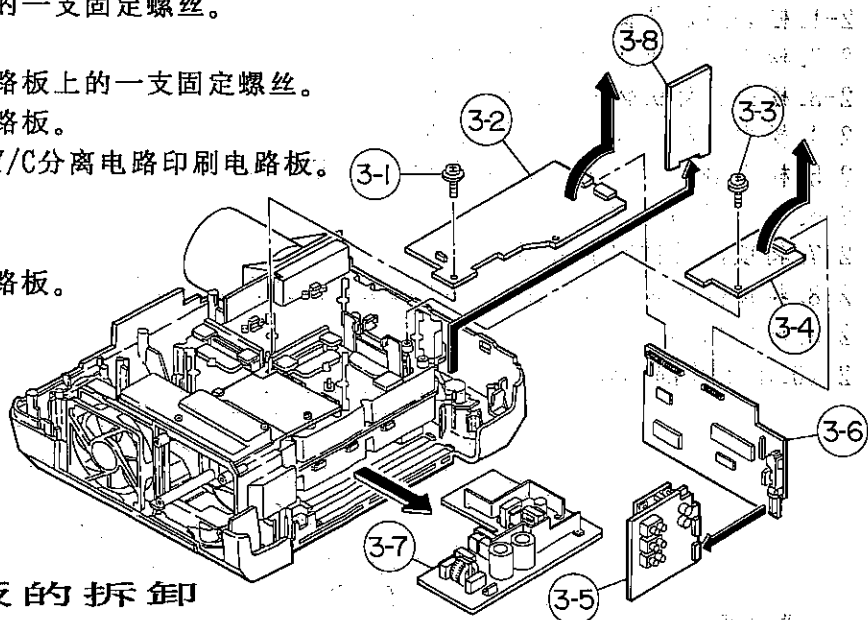
2. 顶部机体、底部机体及风扇室盖的拆卸

- 2-1. 松去后盖两侧卡扣，端盖组件。
- 2-2. 松去顶部机体的六支固定螺丝。
- 2-3. 松去背部机体的三支固定螺丝。
- 2-4. 松去背部机体的一支固定螺丝。
- 2-5. 松去输入电路印刷电路板上的两支固定螺丝。
- 2-6. 取下背部机体。
- 2-7. 将顶部机体向前滑动10mm左右。
- 2-8. 将顶部机体后部向上提起30mm左右，并向前拉出再取出。
- 2-9. 取出风扇室盖。
- 2-10. 取出前部机体。



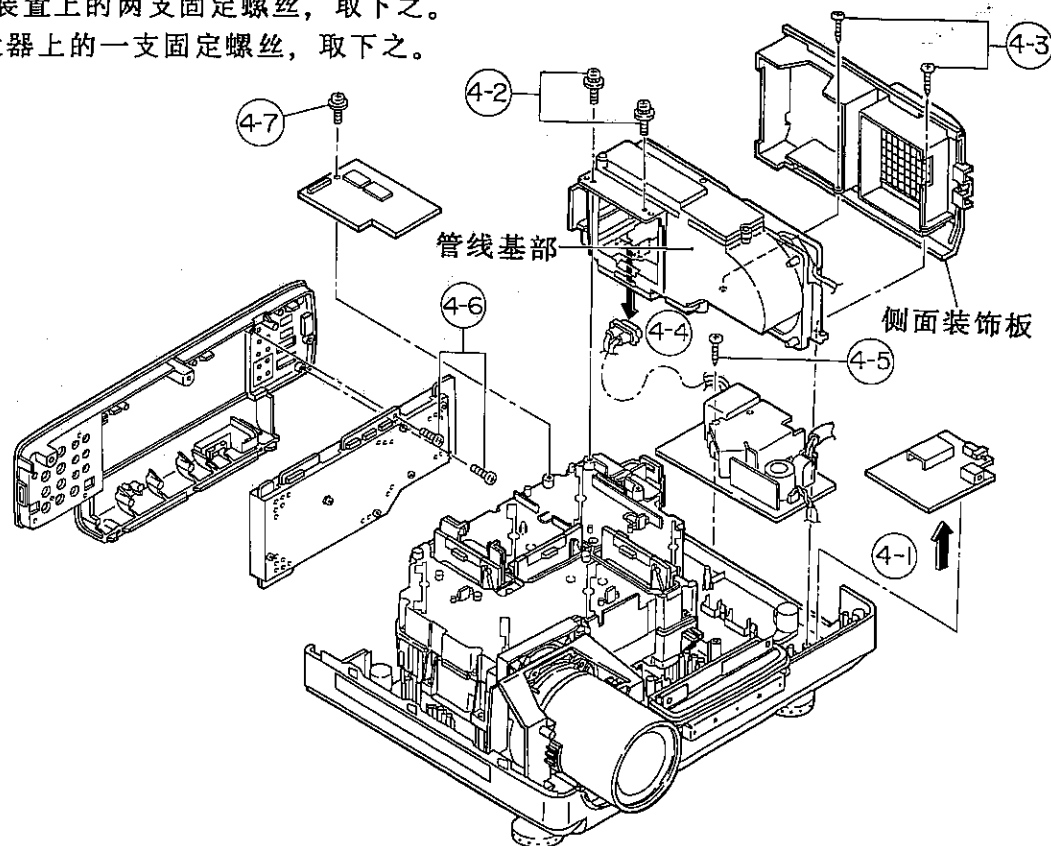
3. 主电路印刷电路板与辅助电路印刷电路板的拆卸

- 3-1. 松去控制电路印刷电路板上的一支固定螺丝。
- 3-2. 取出控制电路印刷电路板。
- 3-3. 松去扫描行数变换器印刷电路板上的一支固定螺丝。
- 3-4. 取出扫描行数变换器印刷电路板。
- 3-5. 取出输入电路印刷电路板与Y/C分离电路印刷电路板。
- 3-6. 取出主电路印刷电路板。
- 3-7. 取出电源电路印刷电路板。
- 3-8. 取出鲜明度控制电路印刷电路板。



4. 其它印刷电路板的拆卸

- 4-1. 取出音频放大器/LED印刷电路板。
- 4-2. 松去风扇装置上的两支固定螺丝。
- 4-3. 松去侧面装饰板上的两支固定螺丝。
- 4-4. 取下镇流器印刷电路板插座。
- 4-5. 松去镇流器印刷电路板上的一支固定螺丝，取下之。
- 4-6. 松去PC I/F装置上的两支固定螺丝，取下之。
- 4-7. 松去VGA放大器上的一支固定螺丝，取下之。

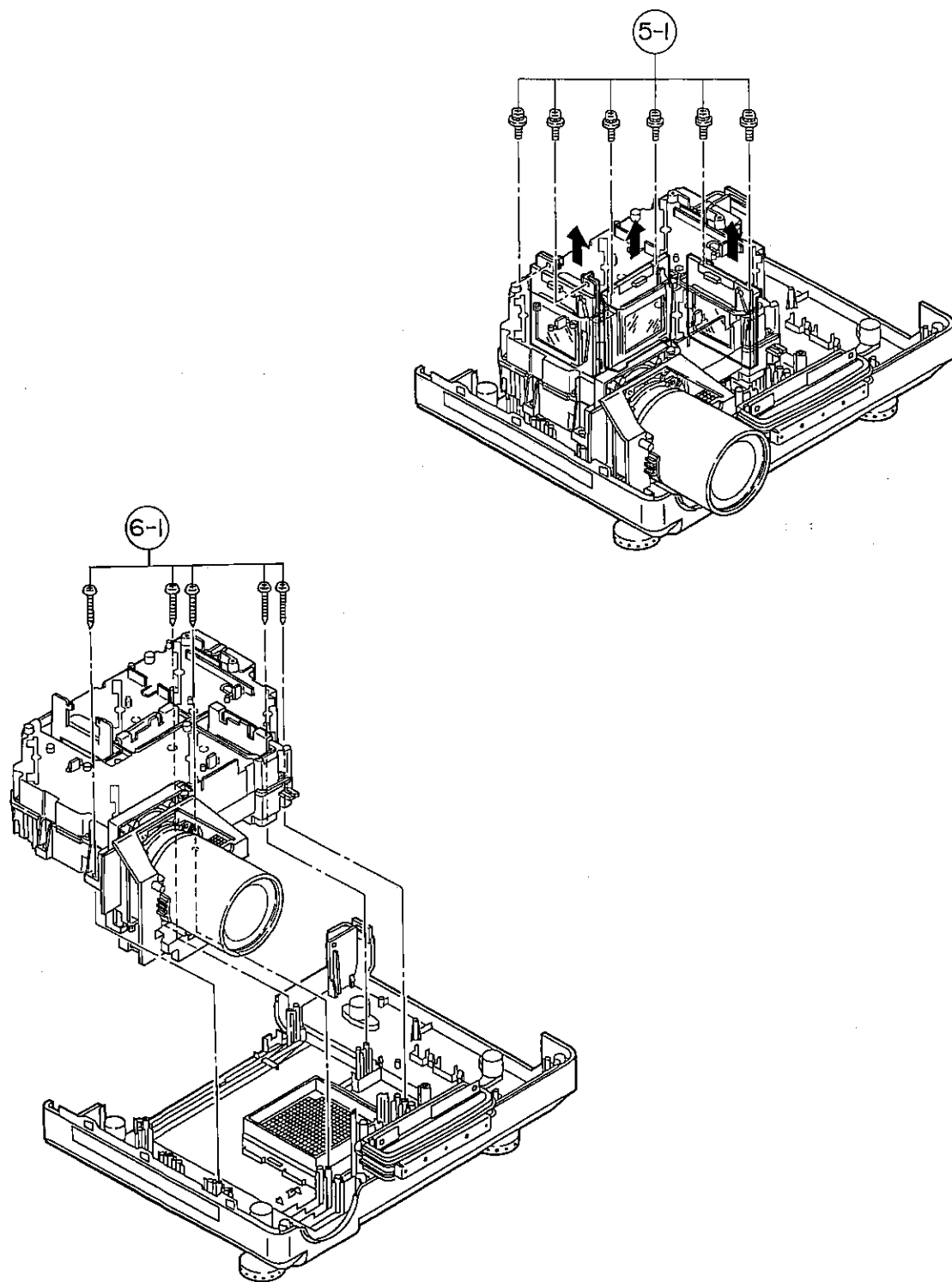


5. 液晶显示板的更换

5-1. 分别松去各自固定红、绿、蓝三块液晶显示板上的两支固定螺丝，取下之。

6. 光学机械装置的拆卸

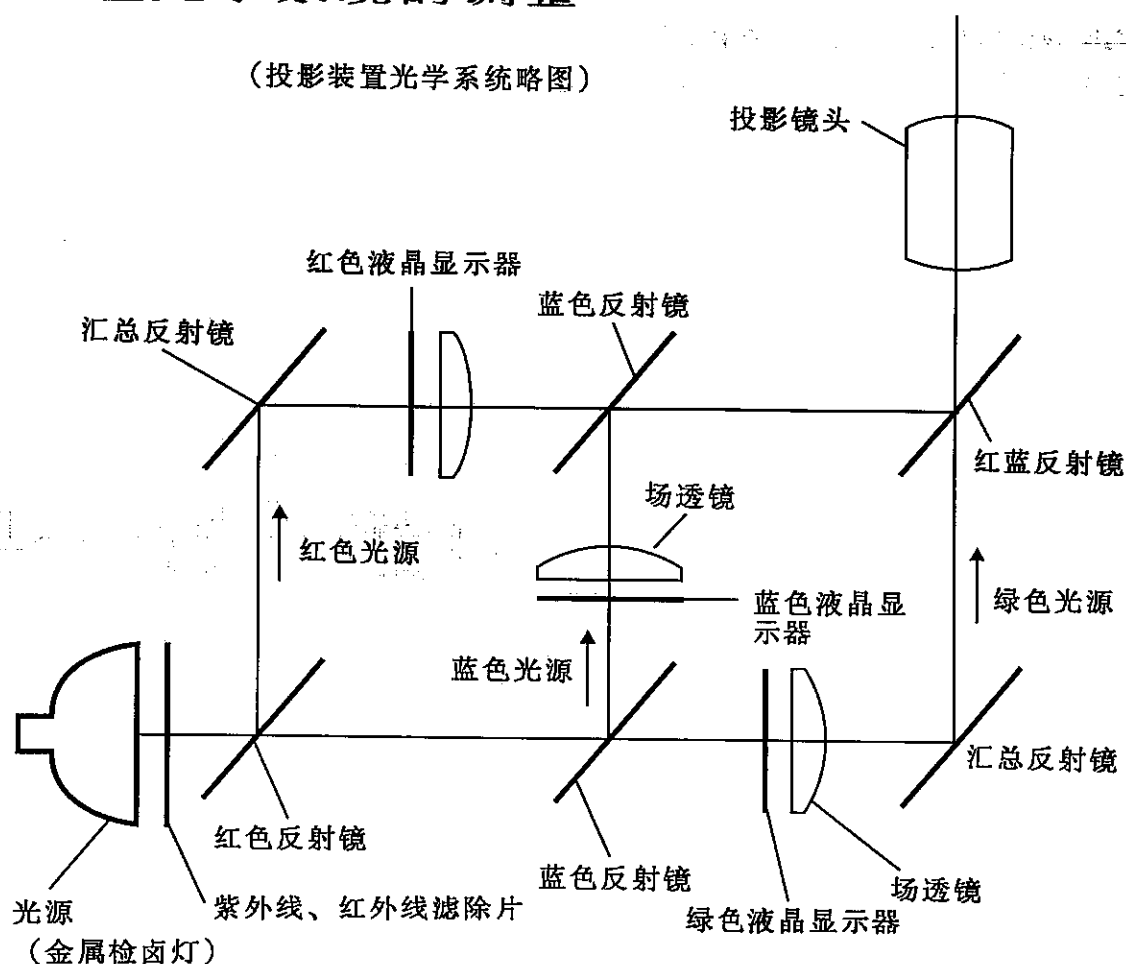
6-1. 松去光学机械装置上的五支固定螺丝，取下之。



影象投射装置简介

投影装置光学系统的调整

(投影装置光学系统略图)



1. 投影光轴的调整

不需加以光学调整的装置无进行此项光轴调整之必要。(这些装置不能进行此项调整。)

2. 液晶显示器平行度的调整

红色：红色液晶显示器→场透镜→红蓝反射镜→投影镜头

绿色：绿色液晶显示器→场透镜→汇总反射镜→投影镜头

蓝色：蓝色液晶显示器→场透镜→蓝色反射镜→红蓝反射镜→投影镜头

分别独立地调整各原色液晶显示器，使汇总色彩图象及聚焦程度均达最佳效果之程度。

■ 镜头及各反射镜的清擦

1. 镜头的清擦

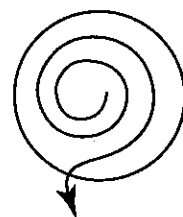
● 清擦剂：

一般以酒精和乙醚的混合剂为宜。使用时，根据使用环境的温度条件，适当调节两者的混合浓度比。通常以用其混合液拂拭镜头表面后立即挥发，不留液迹为最佳。乙醚混合量越多，挥发越快。

● 清擦方法：

用洗净、漂白的软棉布或用商店贩卖的镜头纸拂拭为宜。清擦方法是，一手握住镜头筒体，另一手的拇指与食指挟住蘸有清擦剂的软布或镜头纸，按右图所示要领从中心向外围，划圆圈似地拂拭镜头表面。

注意，清擦时不宜用力过度，以免损伤镜头表面保护涂层。



2. 反射镜的清擦

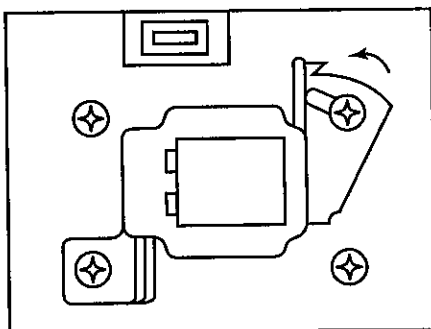
清擦反射镜表面时切勿用力过度，以免损伤其表面涂层。如反射镜表面沾有污垢，请先用酒精清擦后，再用干软布轻轻拂干。

3. 清洁度的经常保持

投影画质的清晰很大程度取决于液晶显示板以及液晶显示板侧聚光镜的清洁程度。因此，应注意经常保持其清洁。

■ 更换液晶显示板后的调整

由于起偏器角度调整装置精度的改善，液晶显示板更换后也没有对起偏板夹板进行调整之必要了。更换时，只需按下图所示逆时针方向旋转之，将其就位卡定便可。



■ X轴、Y轴的位置调整

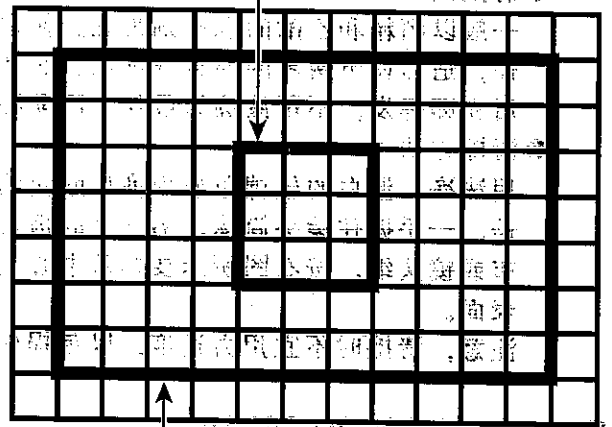
1. 工具与条件

- 1) 遮光屏(用以遮挡光线的硬质, 薄状硬纸片)。
- 2) 图案发生器。

2. 调整事项

- 1) 红色、蓝色光束准确地与绿色光束重合。
- 2) 投影图案准确地与右图所示的中央部的第二方框对齐。
- 3) 最外围的各原色线条彼此尽可能完全重合。

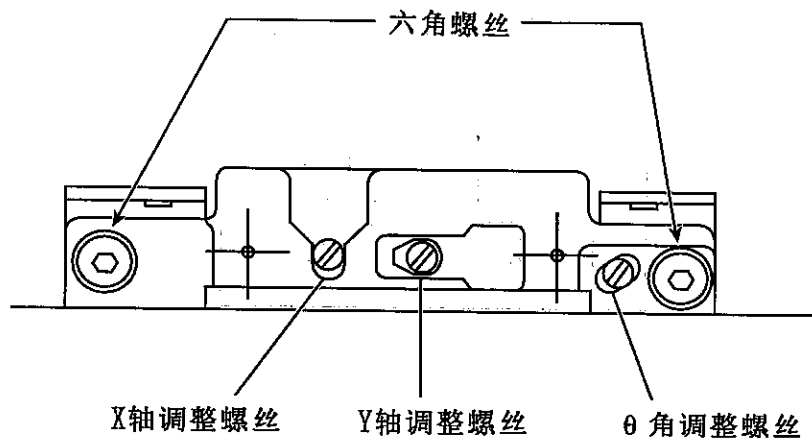
投影图案准确地与中央部第二方框对齐。



最外围的各原色线条彼此尽可能完全重合。

3. 调整步骤

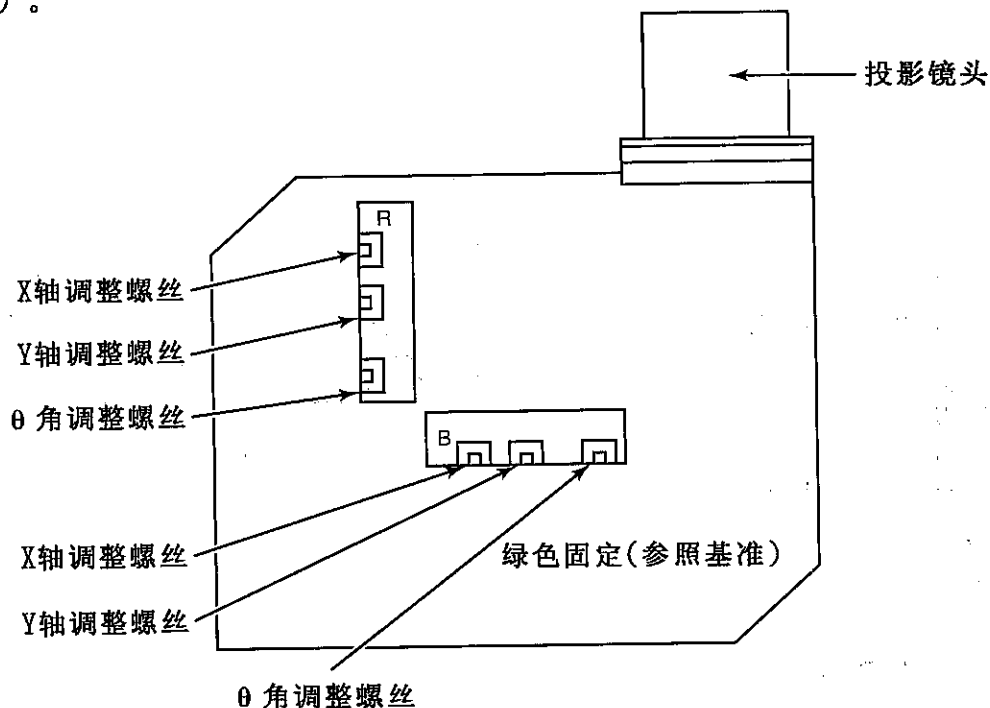
- 1) 分别松开红色与蓝色液晶显示器的各两支固定调整用的六角螺丝。(共4支)
- 2) 通过图案发生器输入棋盘格式图案信号。
- 3) 调整红色液晶显示板。
 - 贴遮光屏于蓝色液晶显示板上(遮挡蓝色光源)
 - 调节X轴调整螺丝, 以调整方块的水平方向。
 - 调节Y轴调整螺丝, 以调整方块的垂直方向。
 - 调节 θ 角调整螺丝, 以调整方块的倾斜角度。



4) 调整蓝色液晶显示板。

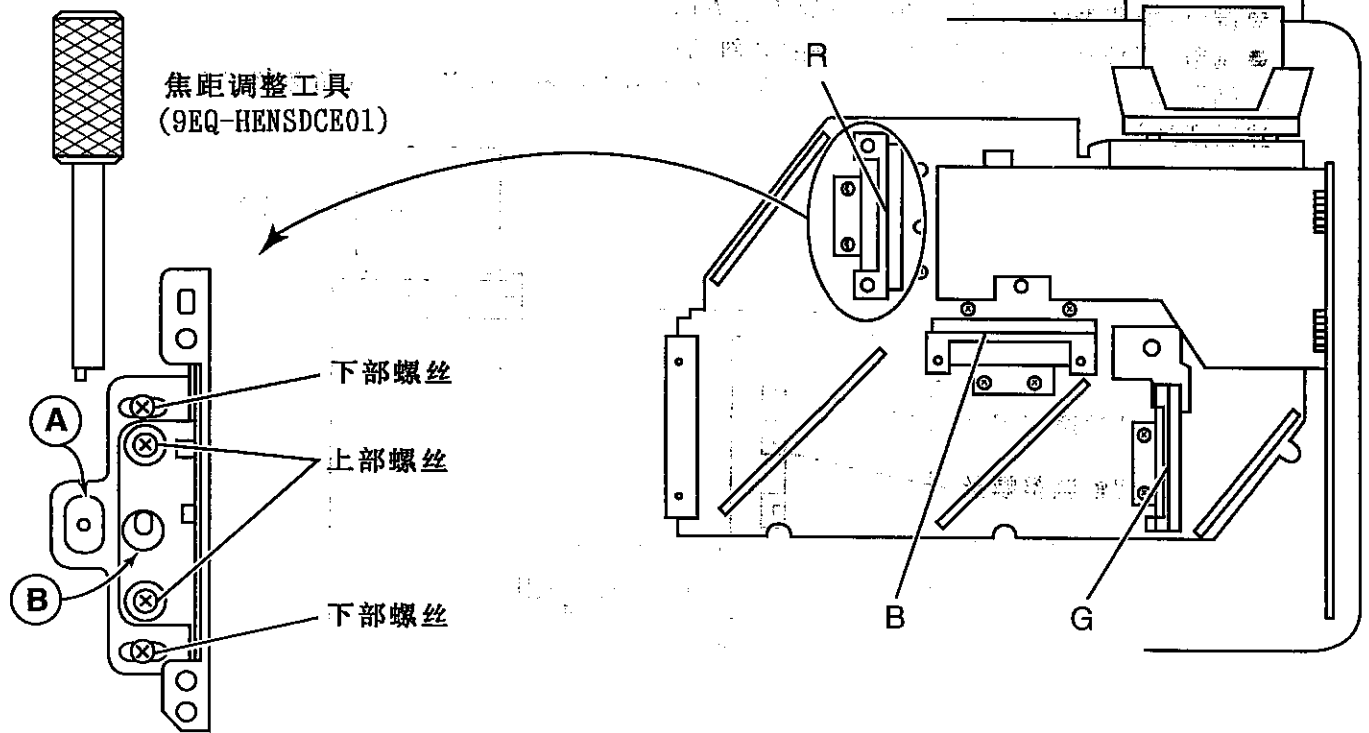
- 贴遮光屏与红色液晶显示板上（遮挡红色光源）
- 重迭蓝色光束方块于绿色光束方块之上。
- 调节X轴调整螺丝，以调整方块的水平方向。
- 调节Y轴调整螺丝，以调整方块的垂直方向。
- 调节 θ 角调整螺丝，以调整方块的倾斜角度。

5) 分别以 $13 \pm 1 \text{ kg-cm}$ 的紧固力矩旋紧红色、蓝色固定调整用的各两支六角螺丝（共4支，上述1)所述）。



调整螺丝	旋转方向	红色	蓝色
θ 角	顺时针	右侧提起	右侧降下
	逆时针	右侧降下	右侧提起
Y轴	顺时针	下移	上移
	逆时针	上移	下移
X轴	顺时针	右移	左移
	逆时针	左移	右移

焦距的调整



红、蓝色变换器俯视图

1. 取下前盖。
2. 取下顶盖。
3. 按上图（俯视图）所示放置投影机。旋转投影镜头调整绿色焦距。（这时，红、蓝色关闭。）
4. 松去左图所示的两支上部螺丝和两支下部螺丝。松开红色变换器。
5. 遮断绿色和蓝色光线（插入遮光板），以便在银幕上投射红色光线。观察银幕上的红色图象而进行下列步骤。
- 5-1. 在调整银幕上部的焦距偏移时，插调整工具于红色变换器下部的A部（将调整工具尖端的偏心销镶入A部中央附近的凹孔中）后旋转调整工具。
由此，红色变换器的下部对着光线的进行方向往前后移动，以便调整银幕上部的焦距。边观察银幕上的变化边进行调整，使焦距达至最佳状态。最后，拧紧下部螺丝。
- 5-2. 在调整银幕下部的焦距偏移时，插调整工具于红色变换器上部的B部（将调整工具尖端的偏心销镶入B部的椭圆形孔中）后旋转调整工具。
由此，红色变换器的上部对着光线的进行方向往前后移动，以便调整银幕下部的焦距。边观察银幕上的变化边进行调整，使焦距达至最佳状态。最后，拧紧下部螺丝。
- 5-3. 在5-2.的调整完毕后，在银幕上部可能会发生偏移现象。此时，应松开下部螺丝，重新按5-1.的步骤进行焦距的调整，然后拧紧下部螺丝。
6. 旋紧上述四支螺丝。
7. 重复步骤4~6，调整蓝色焦距。
8. 将前盖和顶盖装回原来位置。

调整输入功能

1. 概要

该功能的作用是用调整输入开关(S2001)和投影机的薄膜开关。

2. 所用键钮

[S2001] (调整输入)、[MENU] (选择项目)、[INPUT SELECT] (输入选择)、
[SELECT UP : ▲] (上选)、[SELECT DOWN : ▼] (下选)、[ADJUST+ : >] (上调)、
[ADJUST- : <] (下调)、[VIDEO+/-] (图象强/弱)、[BRIGHT+/-] (亮度强/弱)、
[COLOR+/-] (色彩浓/淡)、[TINT+/-] (色调强/弱)

3. 最终设定记忆项目

调整项目：调整输入状态下的前一次设定值被记忆装置记忆。

所有项目的调整数据。

4. 调整步骤

4-1. 用[ADJ. IN] (调整输入) 开关呼出调整输入设定状态。

4-2. 通过“上选”和“下选”或“上调”和“下调”键选出想加以调整的项目分组。再触按[MENU]键。

4-3. 用“▲”和“▼”或“<”和“>”键选定项目分组内具体想调整的项目。再触按[MENU]键。(触按“▲”和“▼”键，再在选择项目分组内选定下一个调整项目。

4-4. 触按“输入选择”键，于是上一次表示在银幕上的调整项目又出现于银幕。

4-5. 在调整输入状态下再按“调整输入”开关，调整输入状态便随之取消。(调整输入状态在银幕上的表示为英文“ADJ. IN”。)

5. 调整项目分组 (见下页说明)

VIDEO 1	VIDEO 2	VIDEO 3	RGB 1	RGB 2	LENS	MASK	N • W
SUB-DC	CB-R	PAL-SUB-C	SUB-C	PICTURE	AUTO	TOP BOTTOM	RED
SUB-C	CB-G	BELL-FO		BRIGHT	STANDARD		GREEN
TINT	CB-B	SCM-R-Y		R-DRIVE	TOP		BLUE
COLOUR	SUB-BIAS	SCE-B-Y		B-DRIVE	BOTTOM		WHITE
PICTURE	R-DRIVE	PN-AMP		PULSE	POINT		N • W
BRIGHT	R-BIAS	SCM-AMP		H-PHASE			
	R-DRIVE	PAL-H					
	R-BIAS						

视频输入状态：VIDEO 1~3、LENS、MASK和N.W

RGB1输入状态：RGB1、LENS和N.W

RGB2输入状态：RGB2、LENS和N.W

数字—模拟转换操作

VIDEO1(视频1)

SUB-DC : 副DC调整

SUB-C : 副对比度调整

TINT : 色调调整

COLOR : 色彩调整

PICTURE : 图象调整

BRIGHT : 亮度调整

N.W(标准白色)单色显示

R : 红色

G : 绿色

B : 蓝色

W : 白色

N.W : 标准白色

VIDEO2(视频2)

CB-R : 红色单色反偏压调整

CB-G : 绿色单色反偏压调整

CB-B : 蓝色单色反偏压调整

SUB-BIAS : 副偏压(未使用)

R-DRIVE : 白色平衡(红色)激励调整

R-BIAS : 白色平衡(红色)偏压调整

B-DRIVE : 白色平衡(蓝色)激励调整

B-BIAS : 白色平衡(蓝色)偏压调整

VIDEO3(视频3)

PAL-SUB-C : PAL制式副对比度调整

BELL-F0 : 贝尔滤波器调整

SCM-R-Y : SECAM制式红色亮度信号调整

SCM-B-Y : SECAM制式蓝色亮度信号调整

PN-AMP : PN信号振幅调整

SCM-AMP : SECAM信号振幅调整

PAL-H : PAL制式水平相位调整

RGB1(红绿蓝原色1)

SUB-C : 副对比度调整

RGB2(红绿蓝原色2)

PICTURE : 图象调整

BRIGHT : 亮度调节

R-DRIVE : 白色平衡(红色)调整

B-DRIVE : 白色平衡(蓝色)调整

PULSE : 复位脉冲时序调整

H-PHASE : 水平相位调整

LENS(镜头)镜头偏移调整

AUTO : 偏移设定

STANDARD : (标准)未使用

TOP : (上部)未使用

BOTTOM : (下部)未使用

POINT : (点)未使用

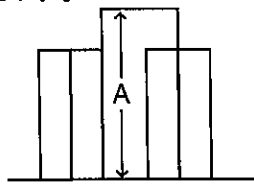
MASK(掩蔽)掩蔽调整

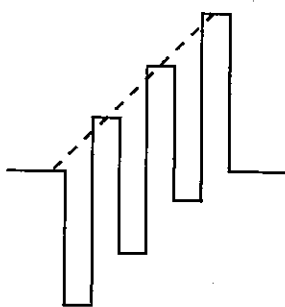
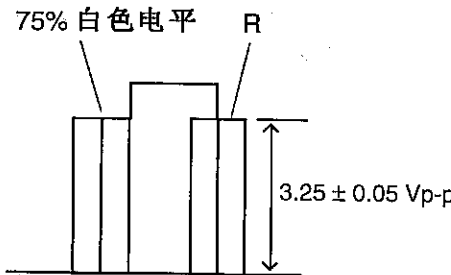
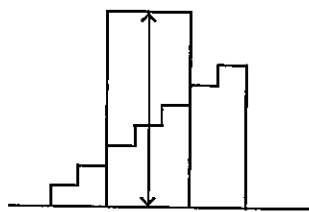
TOP : 银幕上半部掩蔽定位

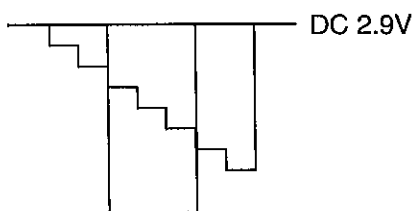
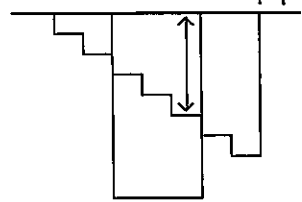
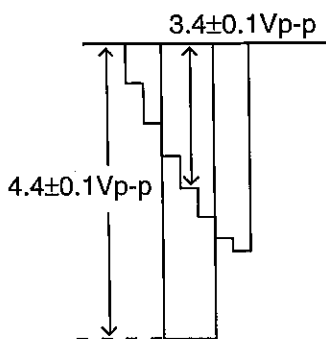
BOTTOM : 银幕下半部掩蔽定位

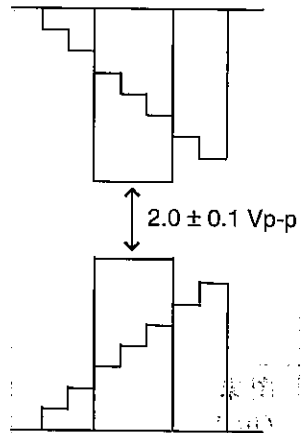
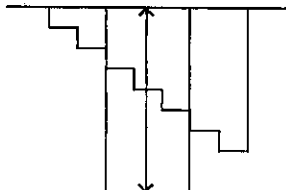
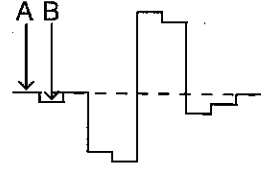
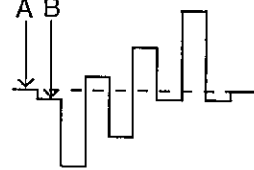
电路调试

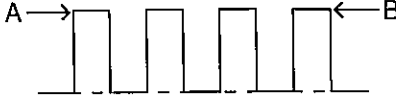
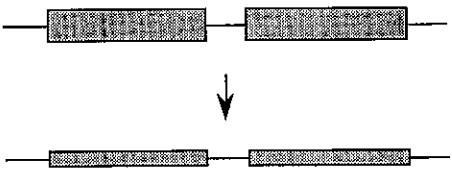
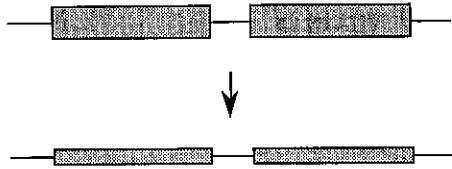
注意：出厂时，虽然设定于最佳位置，但是，若发现设定位置不符规定要求之情况，或者，更换零件时，必须重新调整设定位置。

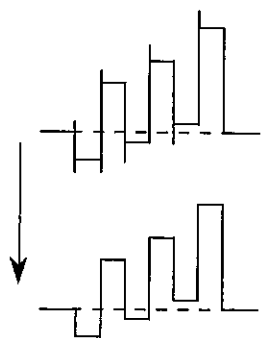
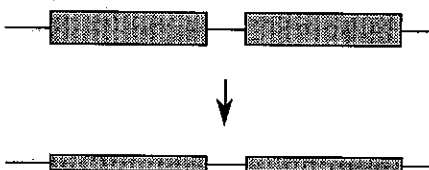
序号	调整部位	调整条件	调整方法
1	变距镜头的定位	1. 设变距镜头于标准位置。 2. 触按薄膜开关上的S2001和+/-键，设DAC方式于下记状态。 主项目：LENS 副项目：AUTO	触按薄膜开关上的DAC (+) 键，开启微处理机，让其自动移动镜头位置并自动输入镜头定位数据。
2	VCO初级振荡器 L1601 (控制装置)	1. 接收单象管图案信号。 2. 触按S1601键。	调节L1601的铁心，使图象显示于银幕上。调节完毕后，拆下S1601键。
3	水平中心 R1603	1. 接收单象管图案信号。	触按R1603键以调节水平中心位置。
4	扫描行数 变换器 L4101	1. 短接TP4101和GND(接地端)之间。 2. 接计频器于TP4102。	调节L4101，使计频器所侧读数达至$15.625 \pm 0.01\text{kHz}$的规定要求。
5	辅助DC (DAC)	1. 接收彩条信号。 2. 触按S2001键，设DAC方式于下记状态。 主项目：VIDEO 1 副项目：SUB DC 3. 接示波器于SC801的销(5)。	触按DAC +/- 键，使黑色电平与消隐电平一致。
6	副对比度 (DAC)	1. 于AGC OFF状态下选择S801。 (通过S801断开R1540。) 2. 接收彩条信号。 3. 触按S2001键，设DAC方式于下记状态。 主项目：VIDEO 1 副项目：SUB C 4. 接示波器于SC801的销(6)。	触按薄膜开关上的+/-键，调下图所示A电平与100%白色电平为$3.4 \pm 0.05\text{Vp-p}$的规定要求。  A: $3.4 \pm 0.05\text{Vp-p}$

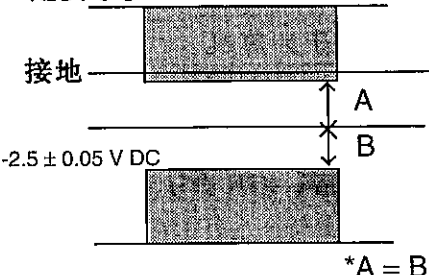
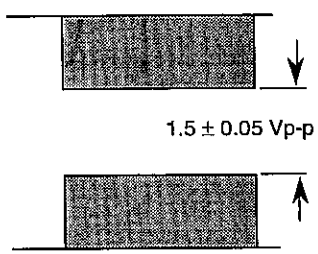
序号	调整部位	调整条件	调整方法
7	色调 (DAC)	1. 接收彩条信号。 2. 触按S2001键, 设DAC方式于下记状态。 主项目: VIDEO 1 副项目: TINT 3. 接示波器于GND (接地端) 与 TP802 (IC801(蓝色亮度信号输出端) 的销(41))。	• 触按薄膜开关上的+/-键, 使蓝色亮度信号的波形呈下图所示的各波峰可为以斜线所连的规定要求。 
8	色彩 (DAC)	1. 接收彩条信号。 3. 触按S2001键, 设DAC方式于下记状态。 主项目: VIDEO 1 副项目: COLOR 3. 接示波器于SC801的销(6)。	• 触按薄膜开关上的+/-键, 调红色电平与消隐电平为 $3.25 \pm 0.05V_{p-p}$ 的规定要求。 
9	AGC(自动增益控制) R1539	1. 在AGC ON状态下选择S801。 (R1540被连接) 2. 接收彩条信号。 3. 接示波器于SC801的销(6)。	• 调100%白色电平与消隐电平为 $3.0 \pm 0.05V_{p-p}$ 的规定要求。 

序号	调整部位	调整条件	调整方法
10	亮度(DAC) AGC ON	1. 接收彩条信号。 2. 通过R1516调SC1501销(2)处的电压为DC+4V(γ 控制为OFF状态)。 3. 触按S2001键, 设DAC方式于下记状态。 主项目: VIDEO 1 副项目: BRIGHT 4. 接示波器于SC1501销(5)和GND(接地端)。	• 触按薄膜开关上的+/-键, 调消隐电平为 $2.9 \pm 0.05V_{p-p}$ 的规定要求。 
11	图象(DAC) AGC ON	1. 接收彩条信号。 2. 通过R1516调SC801销(2)处的电压为DC+4V(γ 控制为OFF状态)。 3. 触按S2001键, 设DAC方式于下记状态。 主项目: VIDEO 1 副项目: BRIGHT	• 触按薄膜开关上的+/-键, 设消隐电平与下图箭头所示之间的电平为 $5.1V_{p-p} \pm 0.1V_{p-p}$ 的规定要求。 
12	γ 值 R1516 R1517 AGC ON	1. 接收彩条信号。 2. 接示波器于SC1501的销(6)。 3. 触按S2001键, 设DAC方式于下记状态。 主项目: VIDEO 1 副项目: BRIGHT	• 调节R1516, 使调消隐电平与第4阶段间的电平值为 $3.4V_{p-p} \pm 0.1V_{p-p}$ 的规定要求。 • 通过R1517调消隐电平与100%白色电平间的读数为 $4.4V_{p-p} \pm 0.1V_{p-p}$ 的规定要求。 

序号	调整部位	调整条件	调整方法
13	白至白间幅值的检查	1. 接收彩条信号。 2. 接示波器于TP804(绿色信号输出端)与GND(接地端)。	• 检查确认白色部分的顶部与底部间的读数为 $2.0 \pm 0.1V_{p-p}$ 。否则,按“主项目:VIDEO 1,副项目:PICTURE”的设定步骤进行调整。 
14	PAL制式副对比度(DAC) AGC ON	1. 接收PAL制式彩条信号。 2. 触按S2001键,设DAC方式于下记状态。 主项目:VIDEO 3 副项目:PAL SUB-C 3. 接示波器于SC1501的销(5)。	• 触按薄膜开关上的+/-键,调消隐电平与100%白色电平间的读数为 $4.4 \pm 0.05V_{p-p}$ 的规定要求。 
15	SECAM制式红色亮度信号(DAC)	1. 接收SECAM制式彩条信号。 2. 触按S2001键,设DAC方式于下记状态。 主项目:VIDEO 3 副项目:SCM-R-Y 3. 接示波器于TP809(IC802的销(30))。	• 触按薄膜开关上的+/-键,使“B”电平与“A”电平达至相同程度。 
16	SECAM制式蓝色亮度信号(DAC)	1. 接收SECAM制式彩条信号。 2. 触按S2001键,设DAC方式于下记状态。 主项目:VIDEO 3 副项目:SCM-R-Y 3. 接示波器于TP809(IC802的销(29))。	• 触按薄膜开关上的+/-键,使“B”电平与“A”电平达至相同程度。 

序号	调整部位	调整条件	调整方法
17	SECAM制式放大器 (DAC)	1. 接收SECAM制式彩条信号。 2. 触按S2001键, 设DAC方式于下记状态。 主项目: VIDEO 3 副项目: SCM-AMP 3. 接示波器于SC804的销(4)。	• 触按薄膜开关上的+/-键, 使“B”电平与“A”电平达至相同程度。 
18	PAL制式水平中心 (DAC)	1. 接收PAL制式或SECAM制式单象管图案信号。 2. 触按S2001键, 设DAC方式于下记状态。 主项目: VIDEO 3 副项目: PAL-H	• 触按薄膜开关上的+/-键, 调图案位置至银幕的中心位置。
19	红色激励 红色偏压 (DAC)	1. 接收单象管图案信号。 2. 触按S2001键, 设DAC方式于下记状态。 主项目: VIDEO 2 副项目: R-DRIVE(与R-BIAS) 3. 接示波器于CH1的TP1804与CH2的TP1802间。 然后, 输入CH1信号与翻转的CH2信号。	• 在红色偏压与红色激励之状态下, 触按薄膜开关上的+/-键, 使波形幅值达至最小程度。 
20	蓝色激励 蓝色偏压 (DAC)	1. 接收单象管图案信号。 2. 触按S2001键, 设DAC方式于下记状态。 主项目: VIDEO 2 副项目: B-DRIVE(与B-BIAS) 3. 接示波器于CH1的TP1804与CH2的TP1806之间。 然后, 输入CH1信号与翻转的CH2信号。 4. 短接TP3(P1603)的销(1)和(2)。 (调整完毕后, 断开TP3(P1603)的销(1)和(2)。)	• 在蓝色偏压与蓝色激励之状态下, 触按薄膜开关上的+/-键, 使波形幅值达至最小程度。 
21	左右彩色浓淡 的调整 R1650	1. 接收单象管图案信号。 2. 断开TP3(P1605)的销(1)和(2)。	• 调节R1650, 使左右的彩色浓淡达至最淡程度。

序号	调整部位	调整条件	调整方法
22	共用DC偏压 R1885 : 红色 R1889 : 绿色 R1883 : 蓝色	1. 接收单象管图案信号。 2. 触按S2001键, 设DAC方式于下记状态。 主项目 : VIDEO 2 副项目 : CB-R、CB-G、CB-B	• 调节R1885、R1889和R1893, 使银幕上表现的对比度达至最清晰之程度。
23	掩蔽音的调整 (DAC)	1. 接收单象管图案信号。 2. 触按S2001键, 设DAC方式于下记状态。 主项目 : MASK 副项目 : TOP、BOTTOM	• 触按视频调整器的+/-键, 分别调上下部的过扫描线至95%之程度。
24	文字表示位置 (T2001)	1. 接收单象管图案信号。	• 调节T2001, 使FOCUS字样移至银幕的中心位置。
25	SECAM制式 贝尔滤波器 (DAC)	1. 接收SECAM制式彩条信号。 2. 触按S2001键, 设DAC方式于下记状态。 主项目 : VIDEO 3 副项目 : BELL-FO 3. 接示波器于TP808 (IC802的销(29))。	• 触按薄膜开关上的+/-键, 使示波器显示出的波形达至下图所示的规定要求。 
26	VGA增益 R3055 (红) R3252 (绿) R3049 (蓝) (VGA)	1. 准备工作。 1-1. 短接TP3301。 1-2. 接收MAC16色调信号。 1-3. 接示波器于TP1801。 粗调R3213, 使波形的黑色部分变为清楚。 1-4. 与此同时, 粗调TP1803/R3203和TP1805/R3205。 2. 接示波器于CH1的TP1801与CH2的TP1802间。 输入CH1信号与翻转的CH2信号。 3. 绿色 : TP1803与TP1804 蓝色 : TP1805与TP1806	• 调节R3055, 使波形幅度达至最小程度。 绿色 : R3252, 蓝色 : R3049 

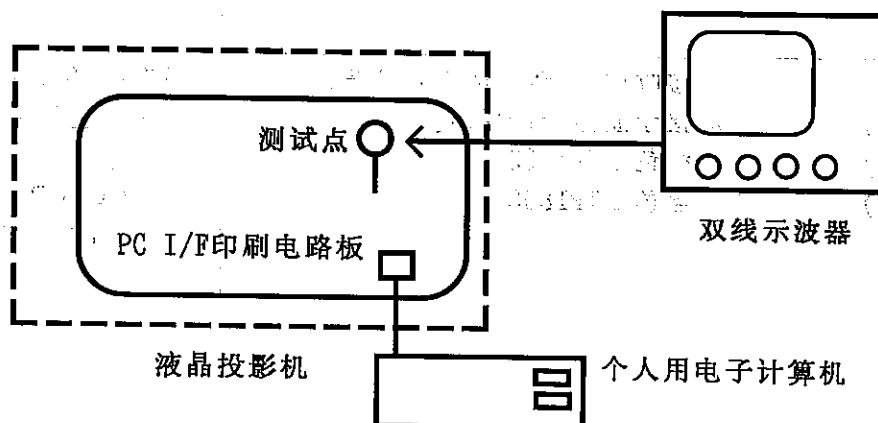
序号	调整部位	调整条件	调整方法
27	中心偏压 R3213 (红) R3202 (绿) R3205 (蓝) (VGA)	1. 接收MAC16色调信号。 2. 接示波器于TP1801。 绿色：TP1803 蓝色：TP1805	调节R3213, 使所示波形之中心达至$-2.5 \pm 0.05V$ DC的规定要求。  *A = B
28	VGA亮度 R3062 (红) R3063 (绿) R3064 (蓝) (VGA)	1. 接收MAC16色调的白色信号。 2. 接示波器于TP1801。 绿色：TP1803 蓝色：TP1805	调节R3062, 使白至白色信号电平达至$1.5 \pm 0.05V_{p-p}$的规定要求。 G: R3063, B: 3064  $1.5 \pm 0.05 V_{p-p}$
29	VGA白色平衡 (微调)	1. 接收MAC16色调信号。	调节R3062和R3064, 观察检查白色平衡状态是否符合CRT上显示的状态。
30	左右彩色浓淡 R3313	1. 拆去TP3301的短接连接。 2. 接收MAC灰色色调等之图表信号。	调节R3313, 使左右色差达至最小程度。
31	MAC相位 (DAC)	1. 接收MAC重叠图案信号。 2. 触按S2001键, 设DAC方式于下记状态。 主项目：RGB2 副项目：H-PHASE	触按+/-键, 使银幕上的噪声达至最小程度。
32	模拟RGB AGC ON	1. 接收 $0.7V_{p-p}$ 模拟RGB彩条信号。 2. 触按S2001键, 设DAC方式于下记状态。 主项目：RGB1 副项目：SUB-C 接示波器于SC1501销(5)与GND (接地端) 之间。	触按薄膜开关上的+/-键, 使消隐信号与白色信号间的电平达至$4.4 \pm 0.1V_{p-p}$的规定要求。

PC I/F印刷电路板的调整

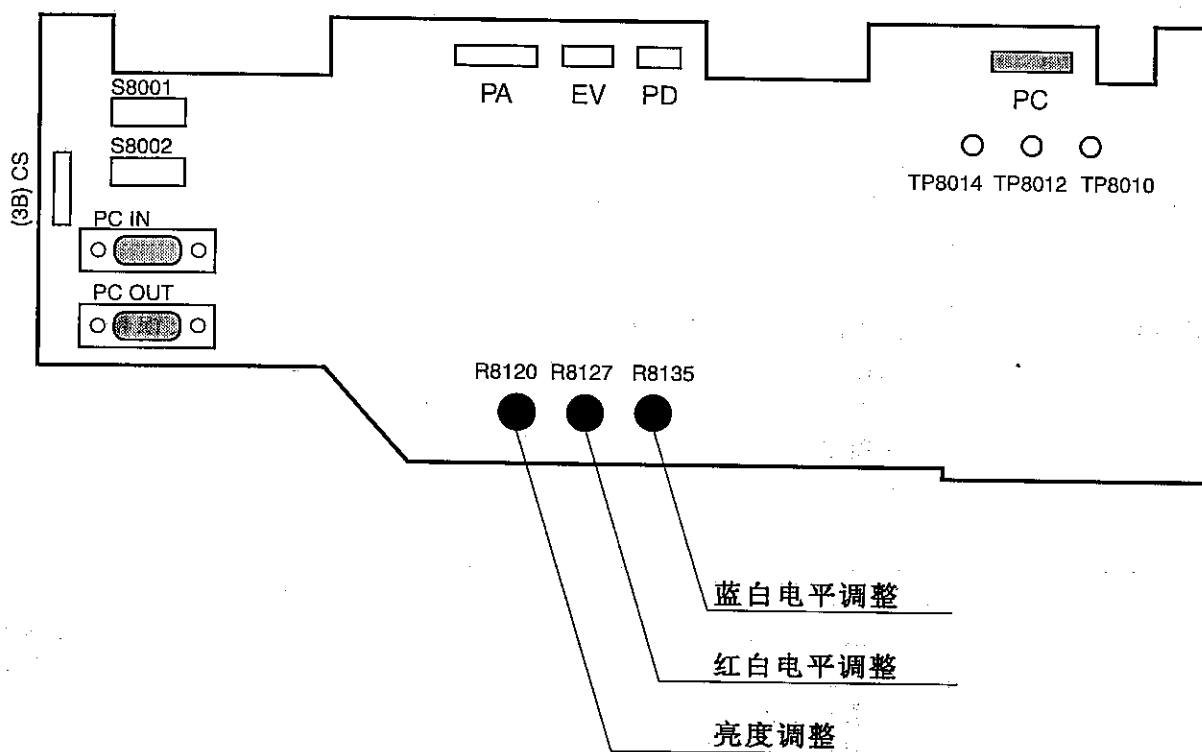
模拟部分的调整

装置或工具	备注
个人用电子计算机	IBM-PC(VGA)、Machintosh(640*480)
控制旋钮调节用螺丝刀	

调整系统的布置

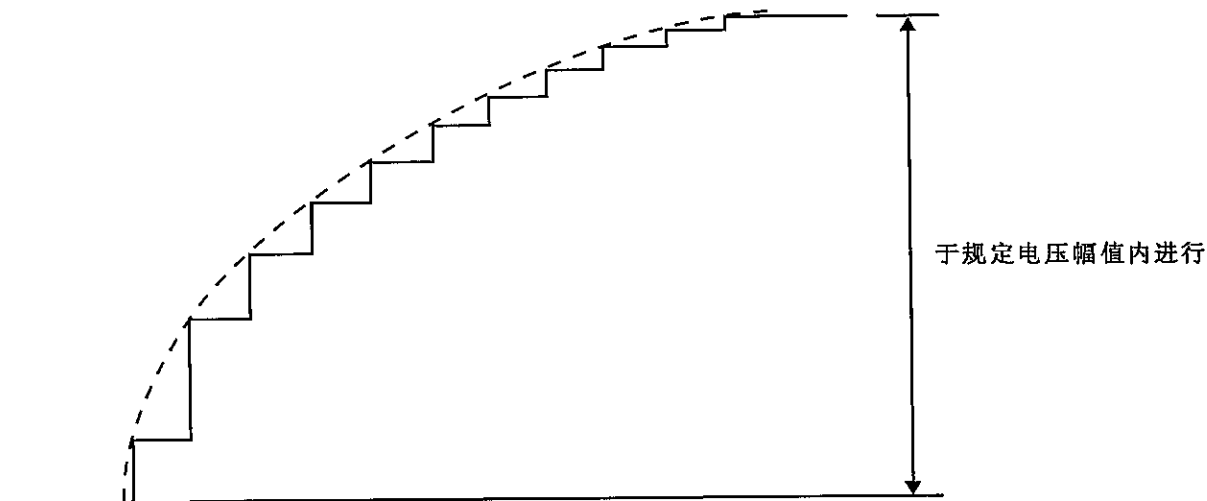


控制旋钮的位置

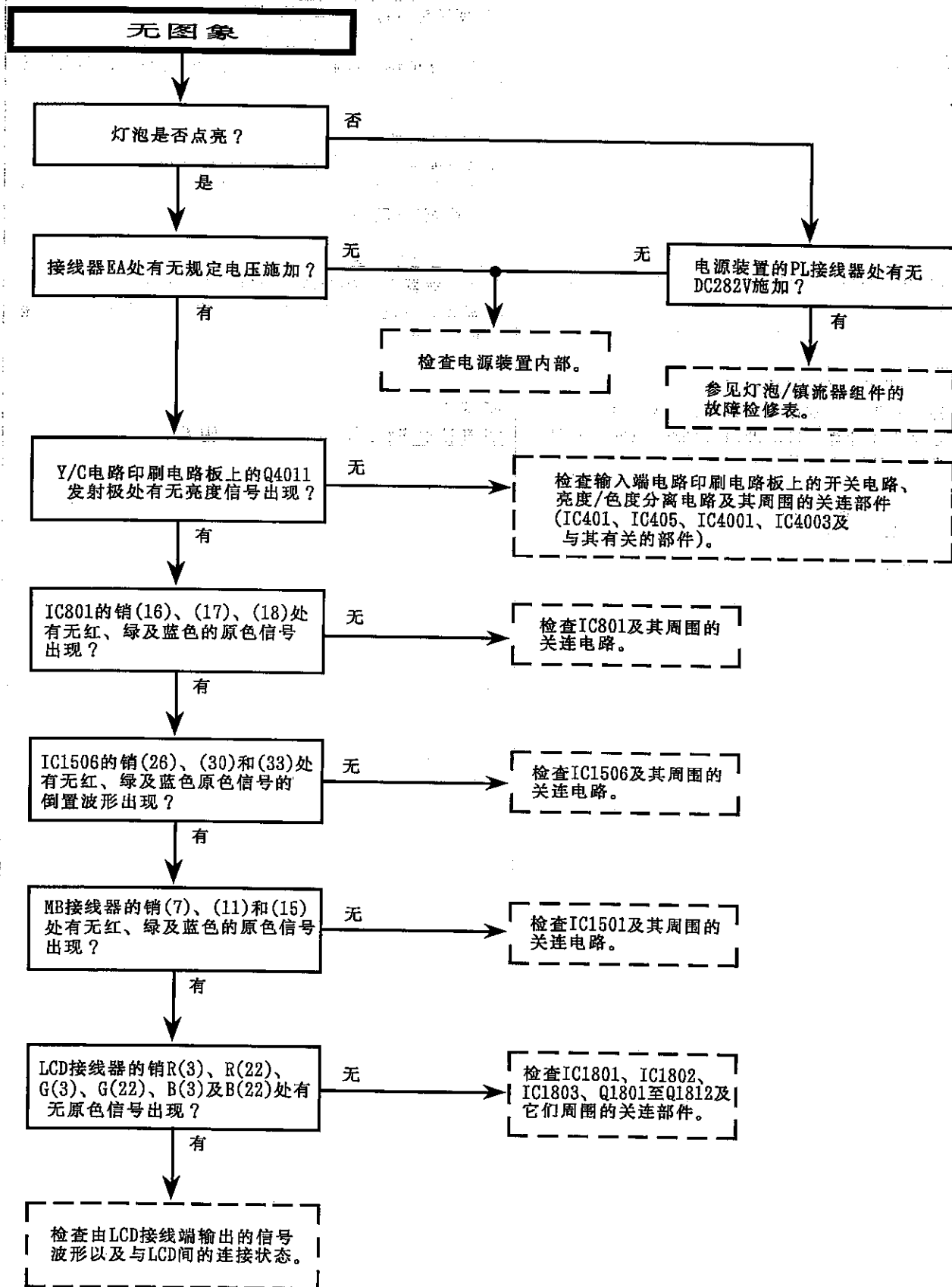


调整条件	调整方法
• 电平与增益的调整 (模拟输出计算机) 测试点 PC接线器的销(9)(绿色、亮度) : TP8014 PC接线器的销(5) (蓝色) : TP8012 PC接线器的销(1) (红色) : TP8010 调整点 R8120 : 亮度调整 R8135 : 蓝白色电平调整 R8127 : 红白色电平调整 调整准备 1. 设滤波器开关(S8001)于“OFF”(关)之位置。 2. 设模拟/数值选择开关(S8002)于“ANALOG”(模拟)之位置。 3. 将LCP调整电平复原。(触按遥控器或投影机上的“MENU”(选择项目)键钮, 选择“RGB2”项目分组, 再按下“RESET”(复位)键。) 4. 将上述各项调整控制钮设于其机械中心位置。 5. 接一台个人用计算机(PC-9801或IBM-PC(VGA))于PC IN接线器。让16色调图表现于银幕。 6. 设示波器测试范围为10微秒/段以及0.2伏/段(AC)。	• 亮度调整 (绿白色电平调整) 1. 接示波器于PC接线器的销(9)(TP8014)。 2. 调节亮度调整控制(R8120), 使色调图最大振幅达至2.0.95V_{p-p}。 • 蓝白色电平调整 3. 接示波器于PC接线器的销(5)(TP8012)。 4. 调节蓝白色电平调整控制(R8135), 使色调图最大振幅达至0.95V_{p-p}。 • 红白色电平调整 5. 接示波器于PC接线器的销(1)(TP8010)。 6. 调节红白色电平调整控制(R8127), 使色调图最大振幅达至0.95V_{p-p}。 注意 : 须确认色调图按规定表现于银幕。
• 相位调整 调整点 相位控制键 (“PHASE<” 键和 “PHASE>” 键) 调整准备 1. 设滤波器开关(S8001)于“OFF”(关)之位置。 2. 向个人用计算机输入指令, 让其在银幕上表现一个“H”的字样。	• 调整 1. 触按相位控制键 (“PHASE<” 键和 “PHASE>” 键), 使图象达至最鲜明的程度。

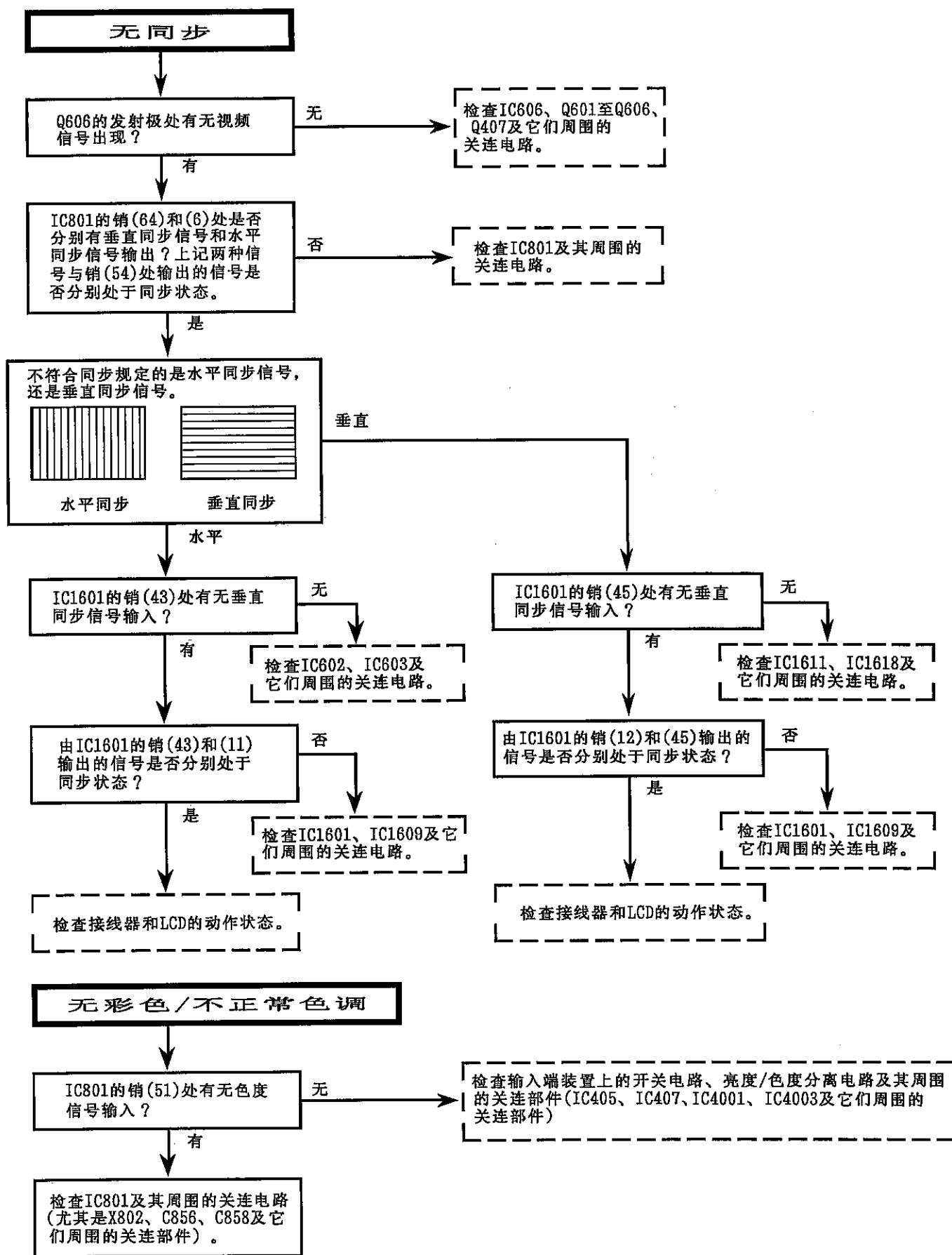
PC接线器调整波形



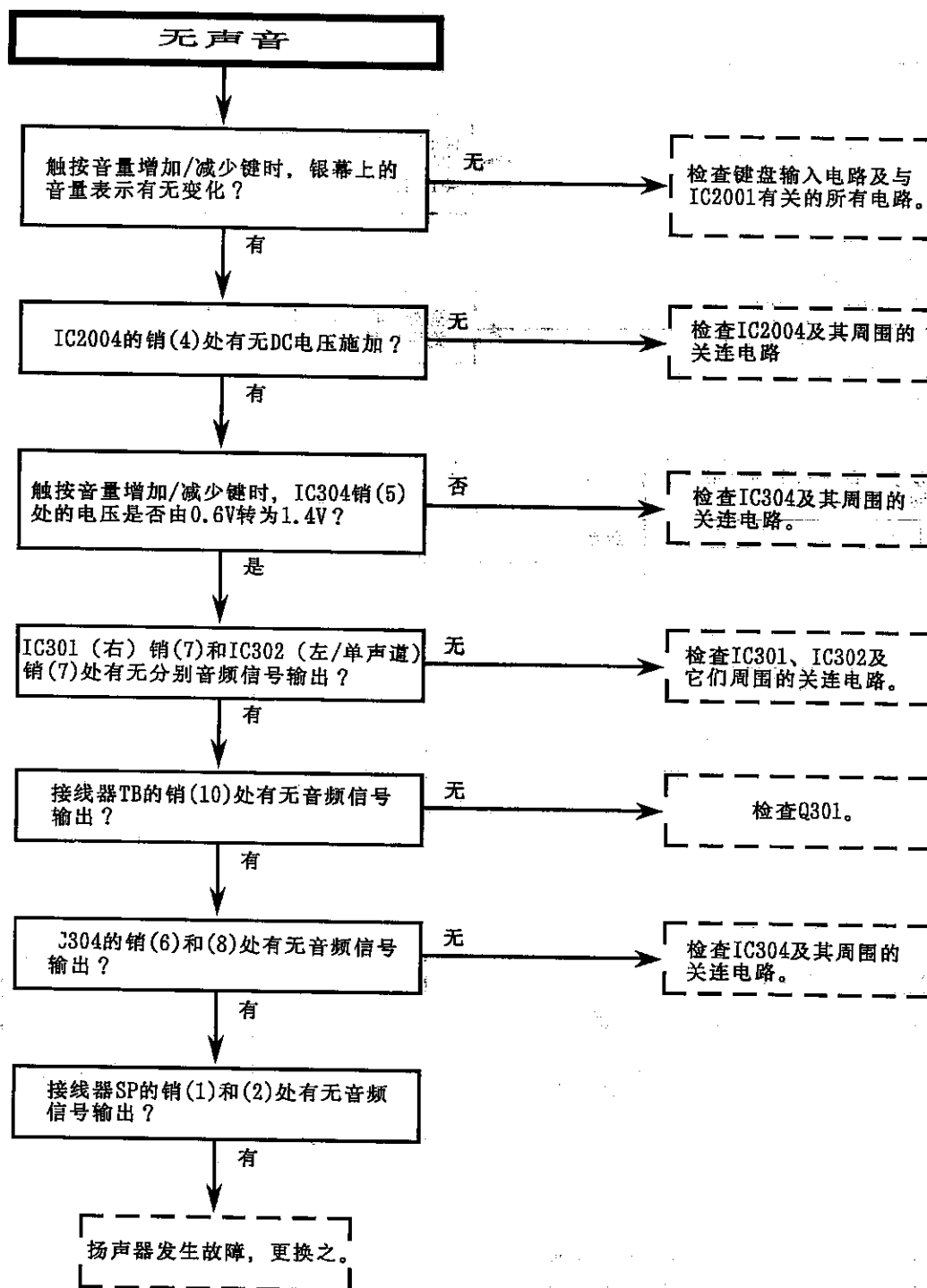
故障检修流程图



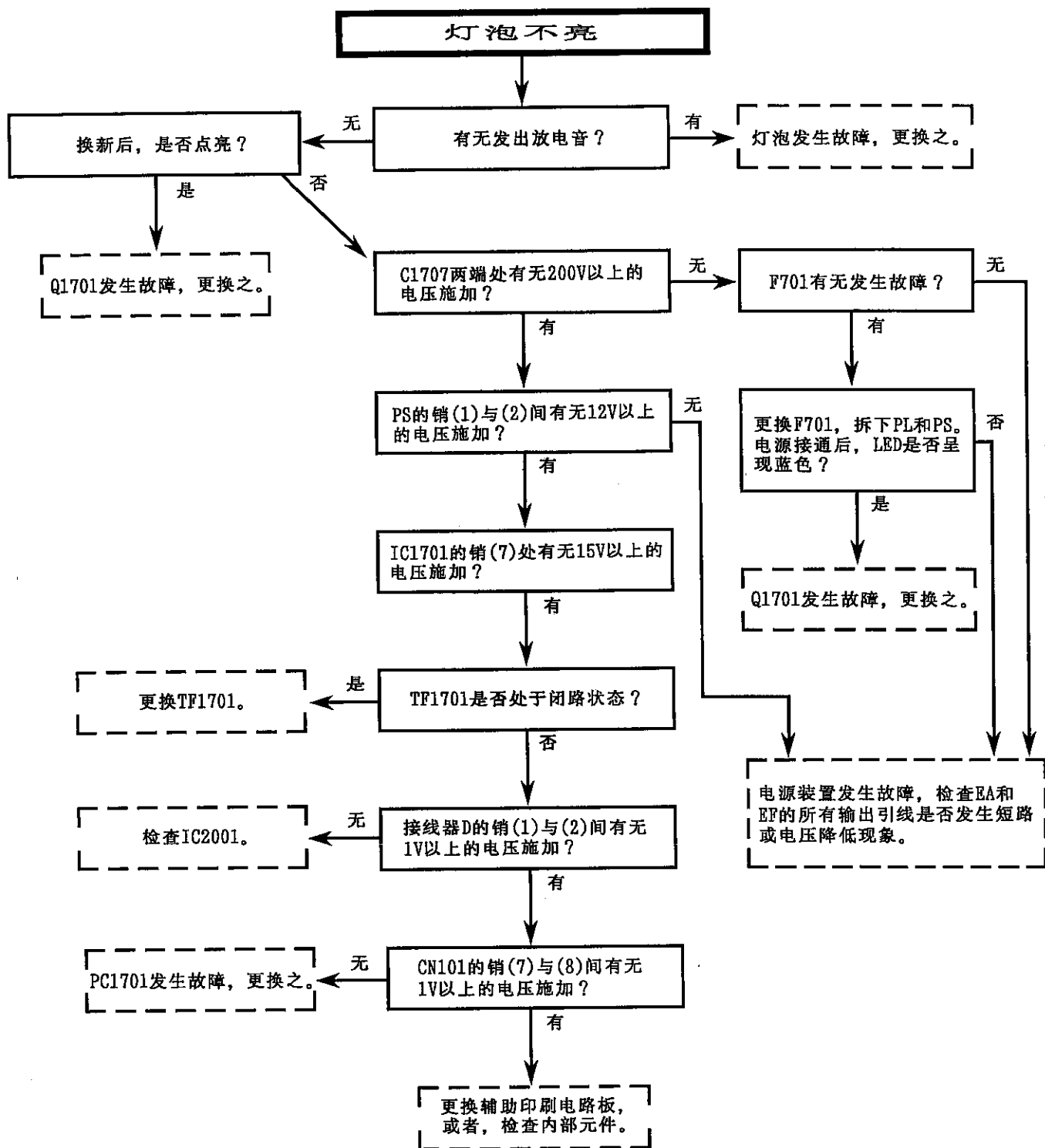
故障检修流程图 (接上页)



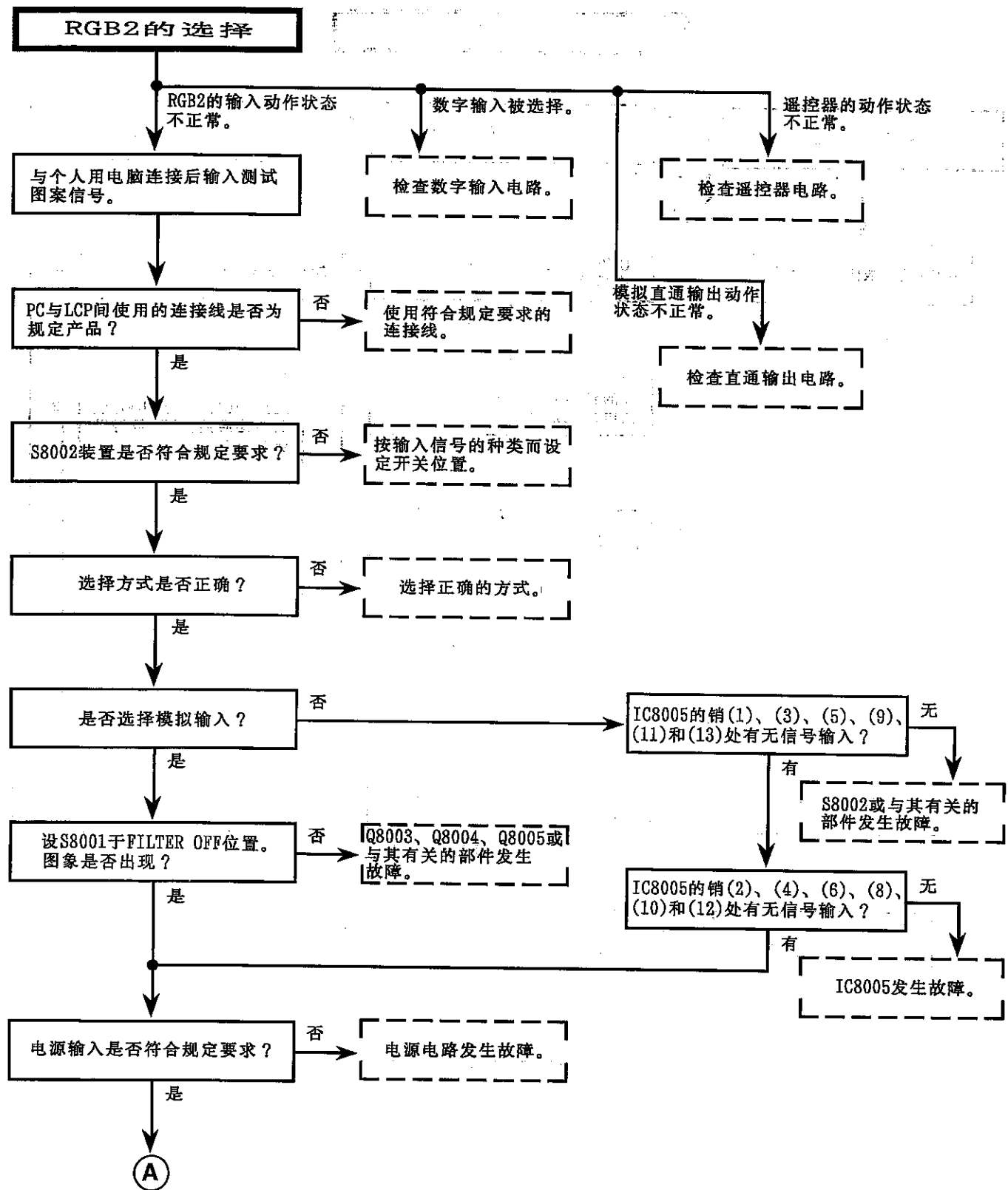
故障检修流程图 (接上页)



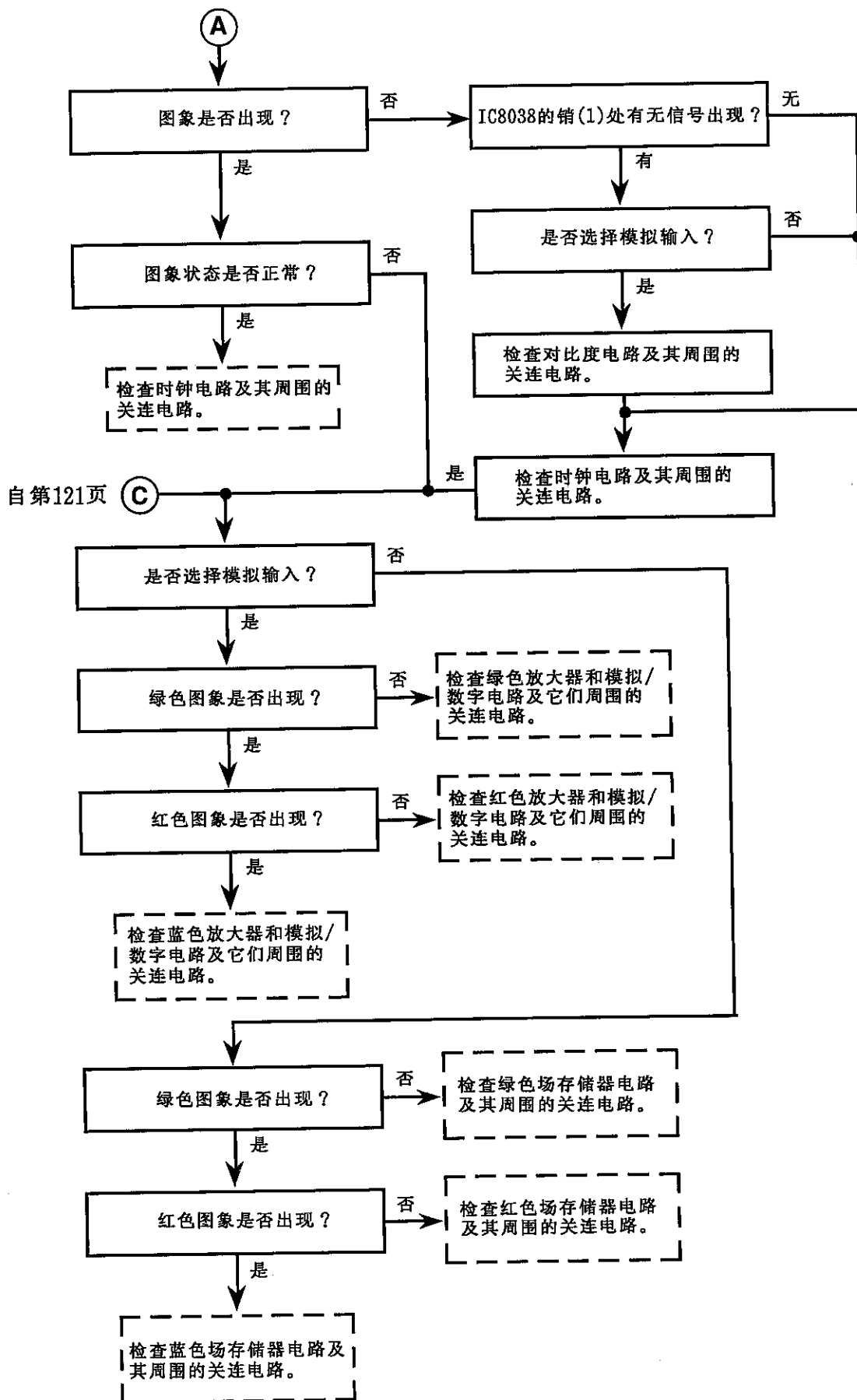
故障检修流程图（接上页）



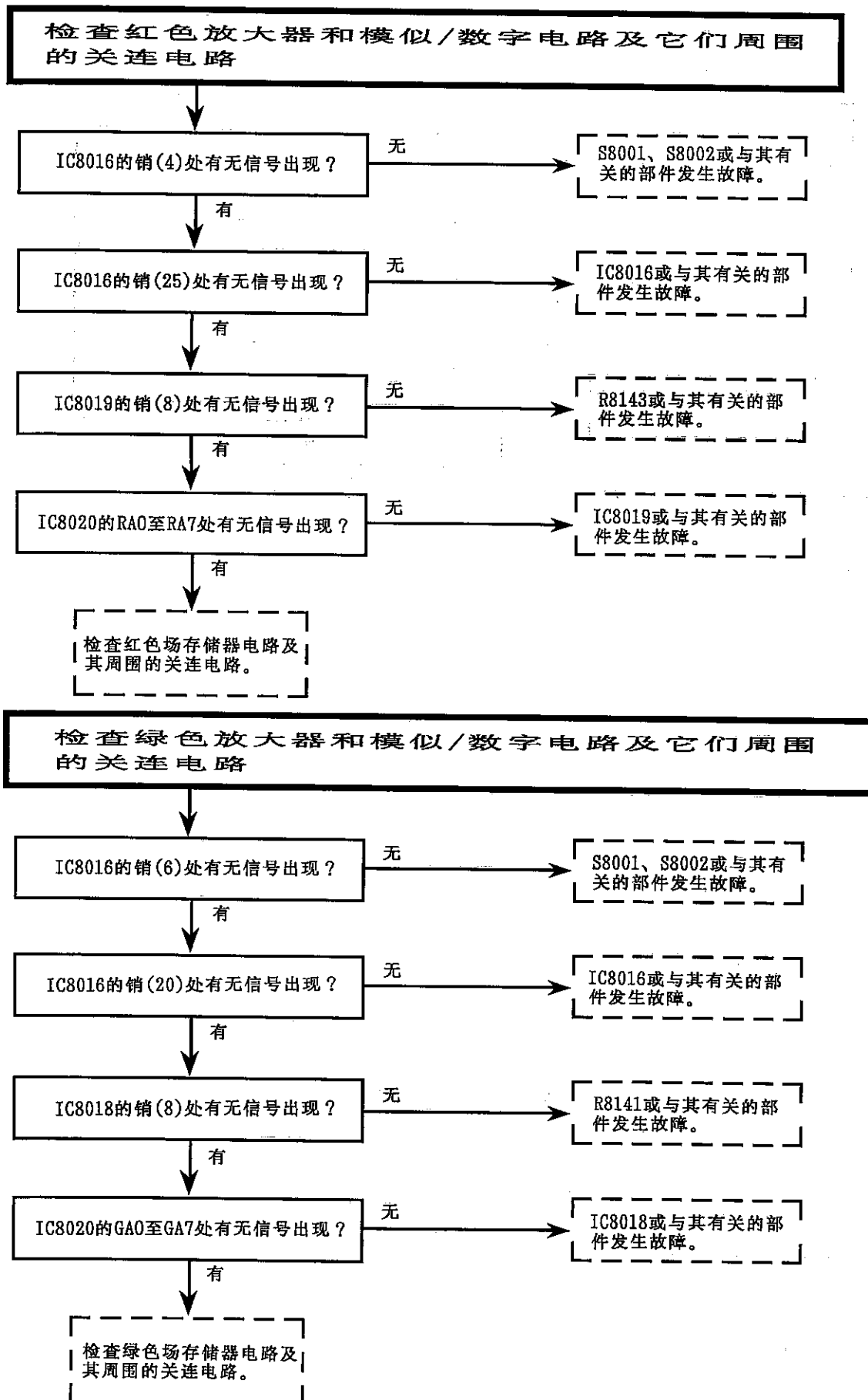
PC/IF装置的故障检修流程图



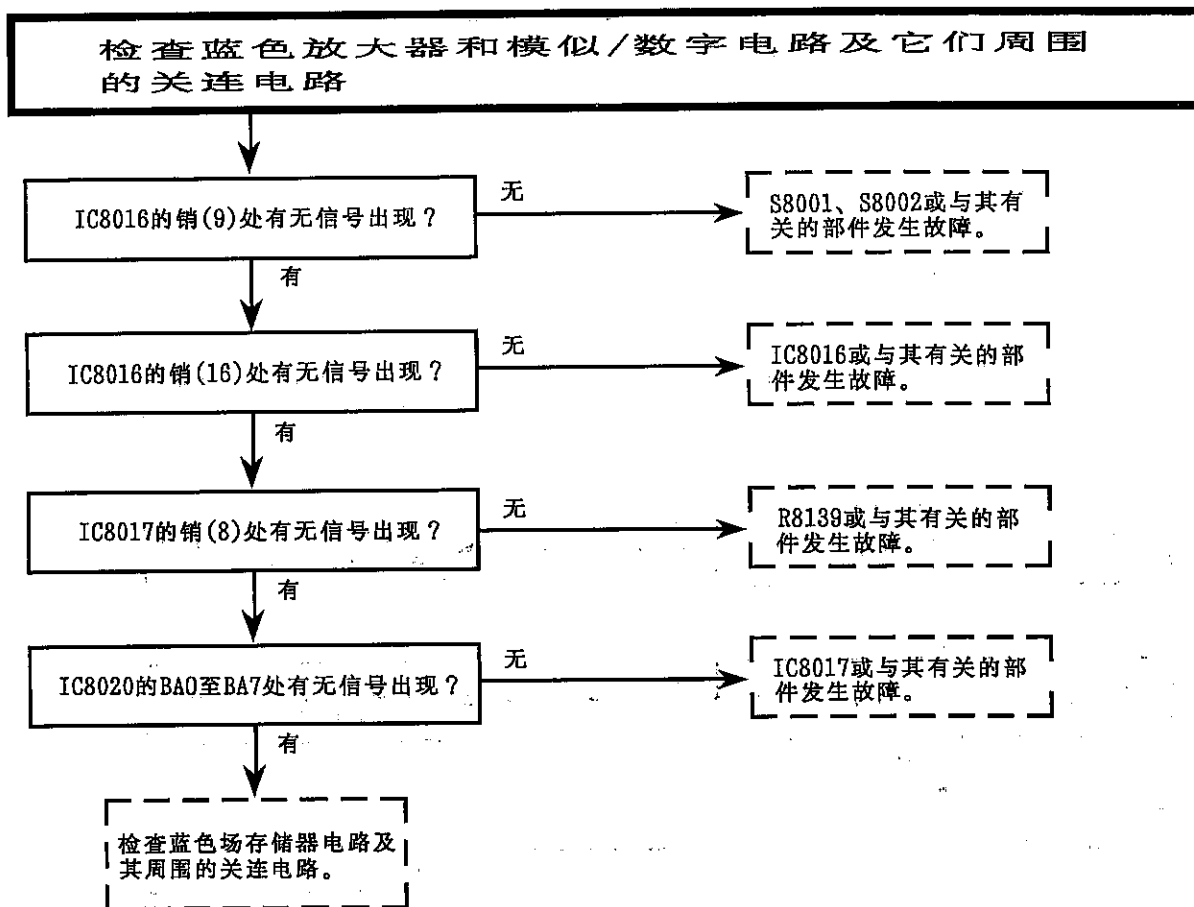
PC/IF装置的故障检修流程图(接上页)



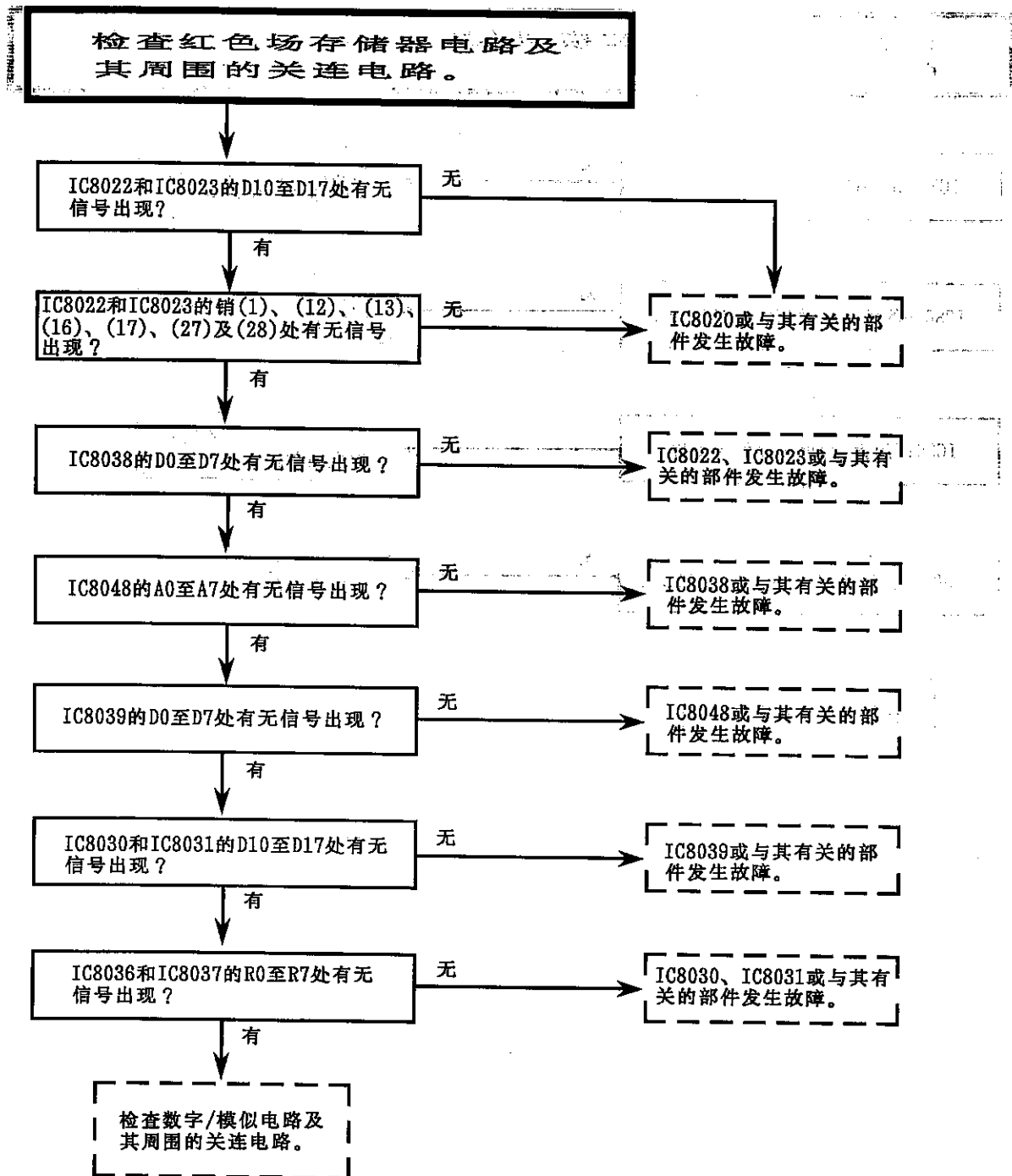
PC/IF装置的故障检修流程图(接上页)



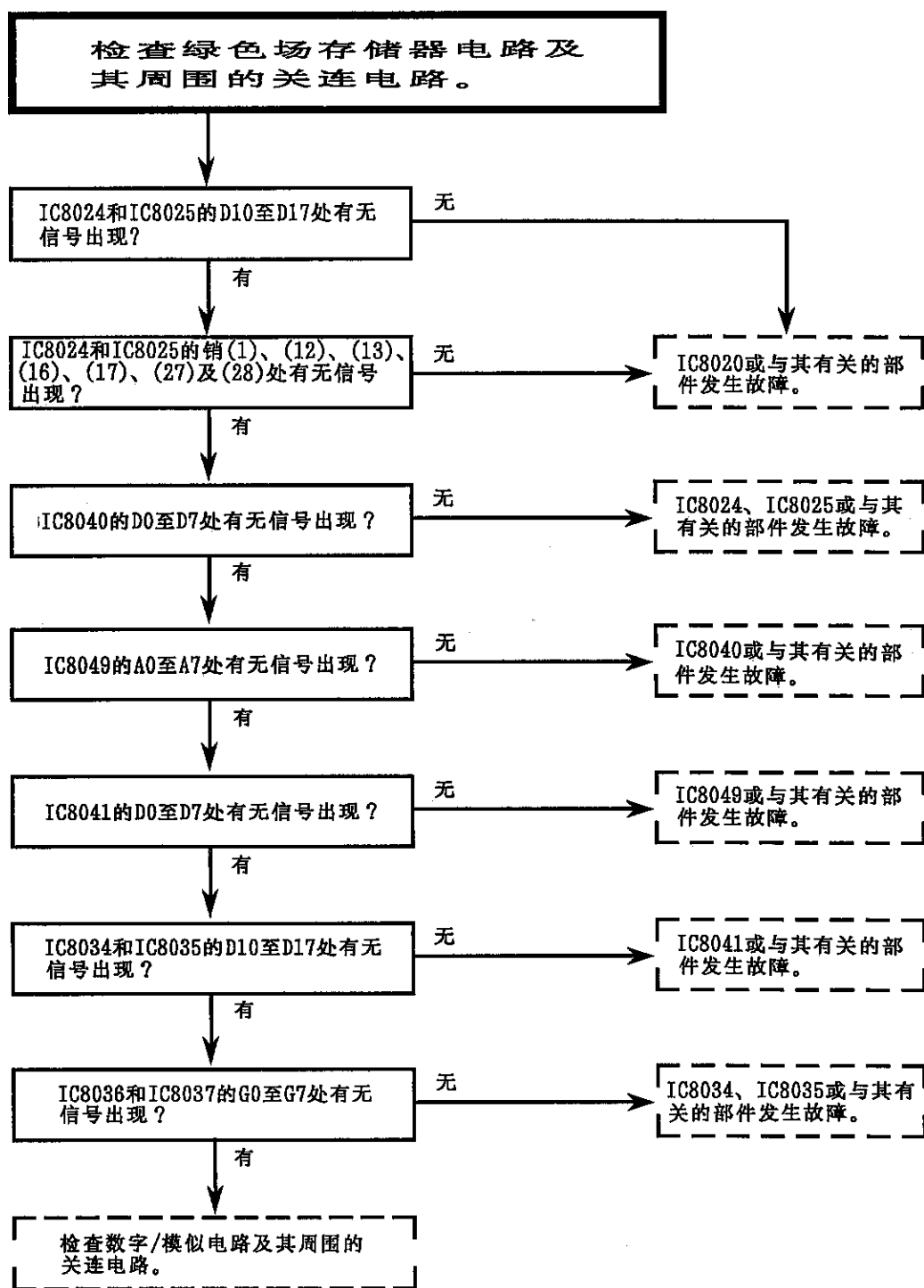
PC/IF装置的故障检修流程图(接上页)



PC/IF装置的故障检修流程图（接上页）



PC/IF装置的故障检修流程图（接上页）



IC8024和IC8025的D10至D17处有无信号出现?

无

有

IC8024和IC8025的销(1)、(12)、(13)、(16)、(17)、(27)及(28)处有无信号出现?

无

有

IC8040的D0至D7处有无信号出现？

无

有

IC8049的A0至A7处有无信号出现？

无

有

IC8041的D0至D7处有无信号出现？

无

有

IC8034和IC8035的D10至D17处有无信号出现？

无

有

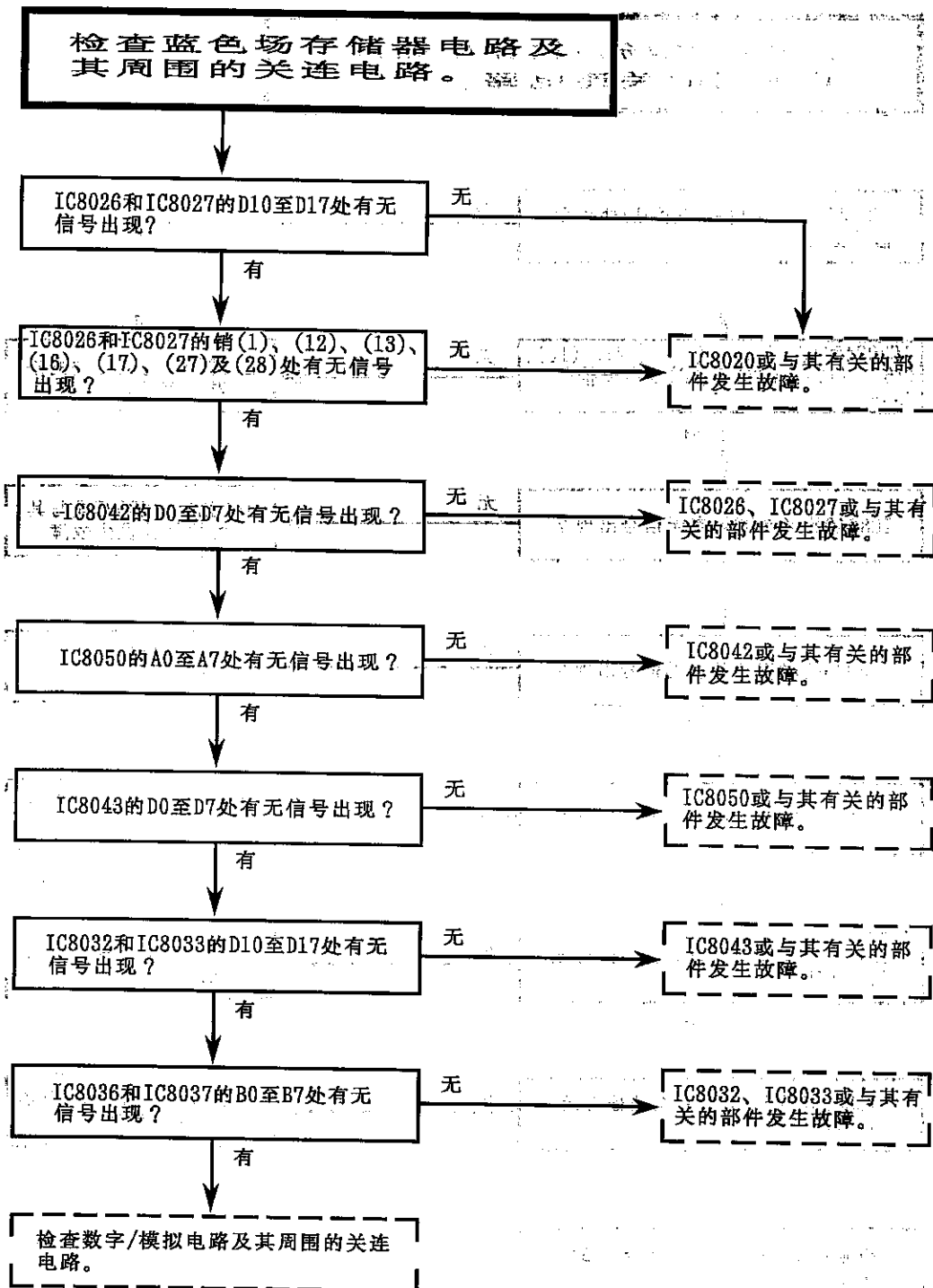
IC8036和IC8037的G0至G7处有无信号出现？

无

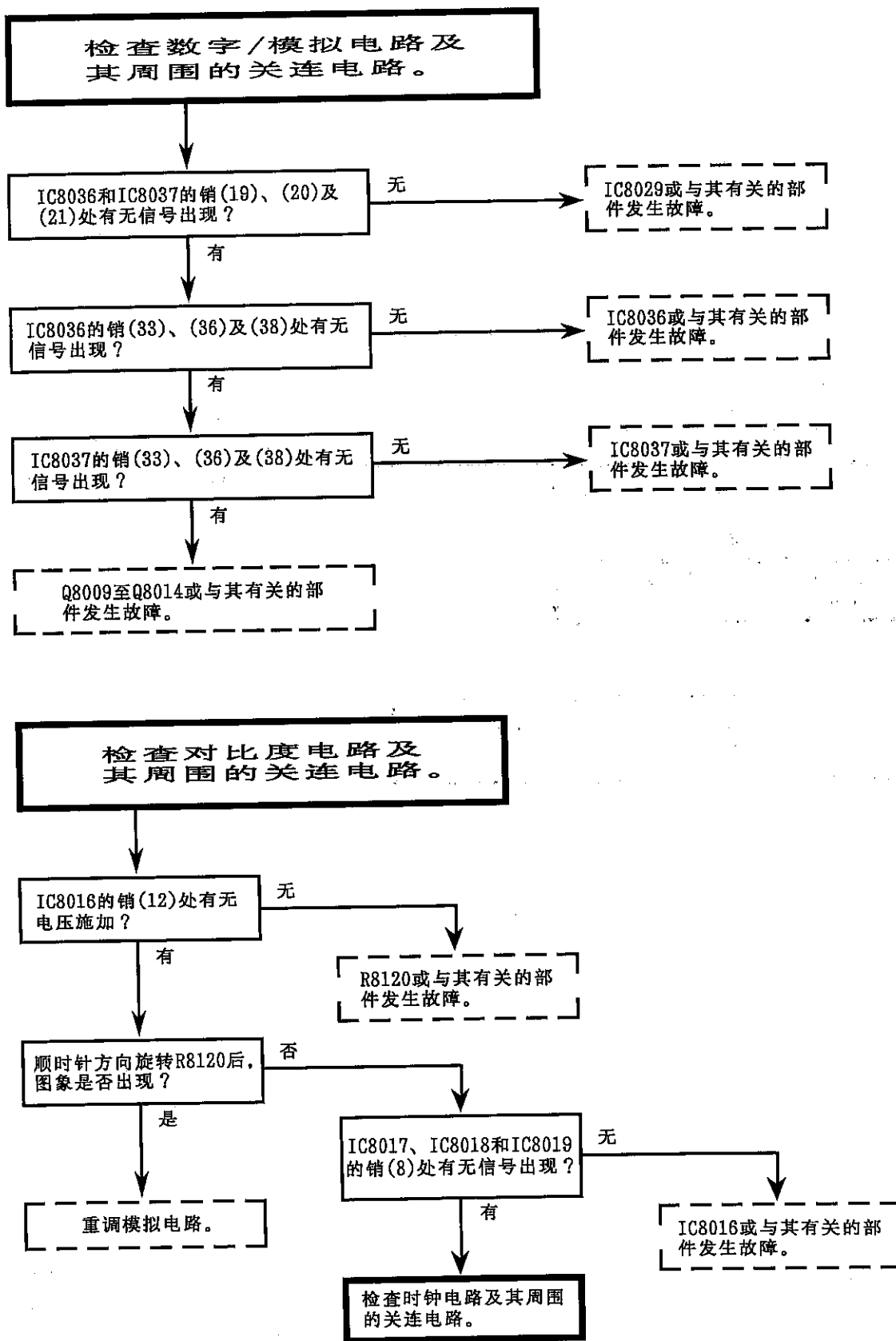
有

检查数字/模拟电路及其周围的
关连电路。

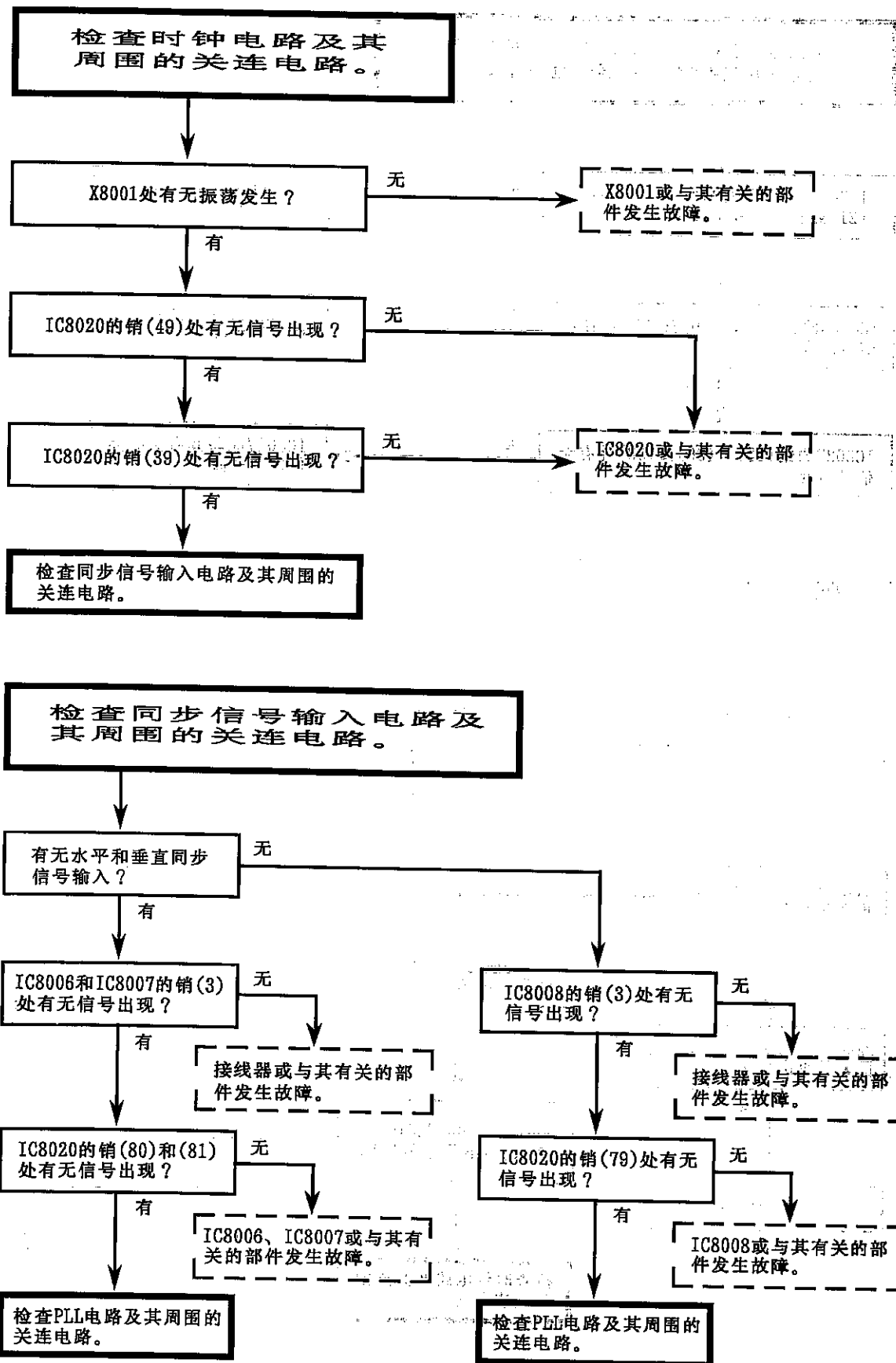
PC/IF装置的故障检修流程图（接上页）



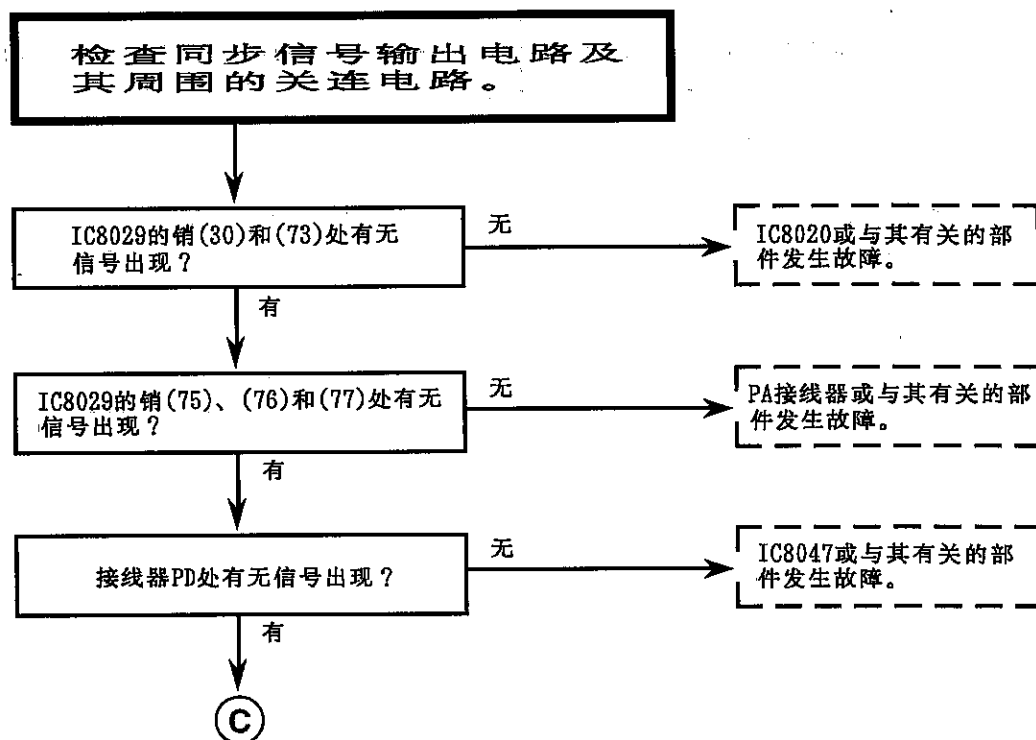
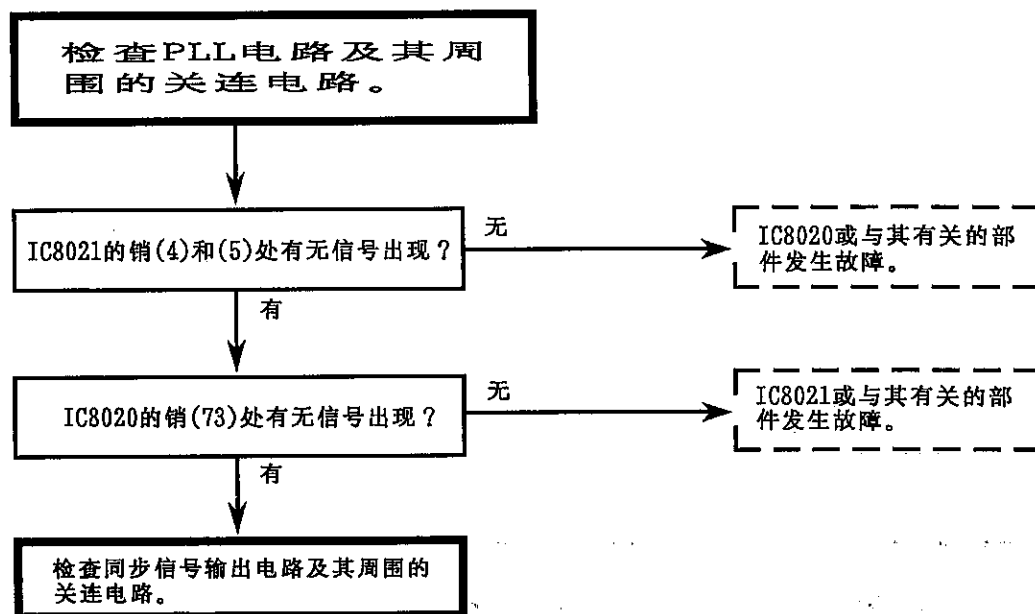
PC/IF装置的故障检修流程图（接上页）



PC/IF装置的故障检修流程图(接上页)

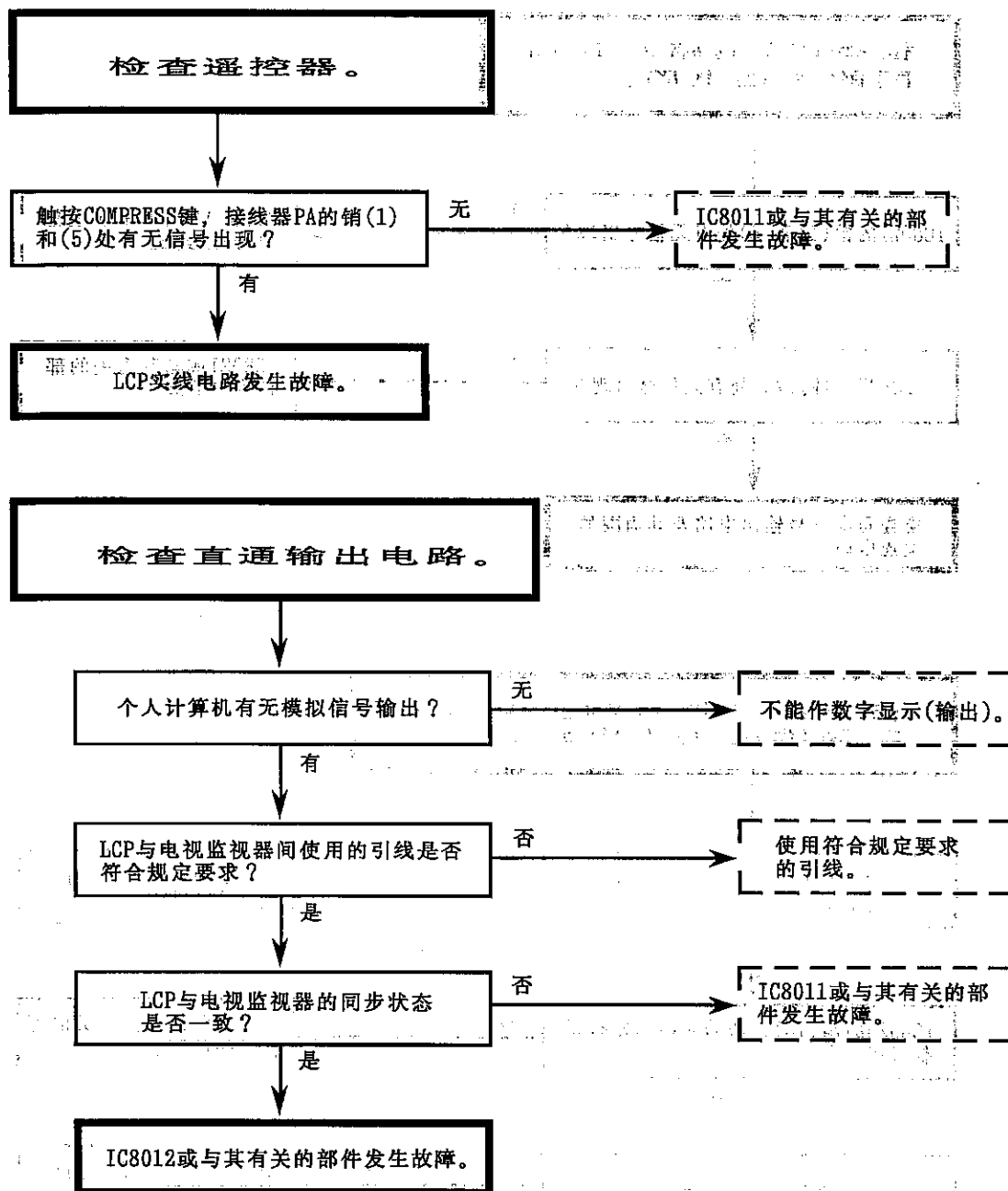


PC/IF装置的故障检修流程图(接上页)

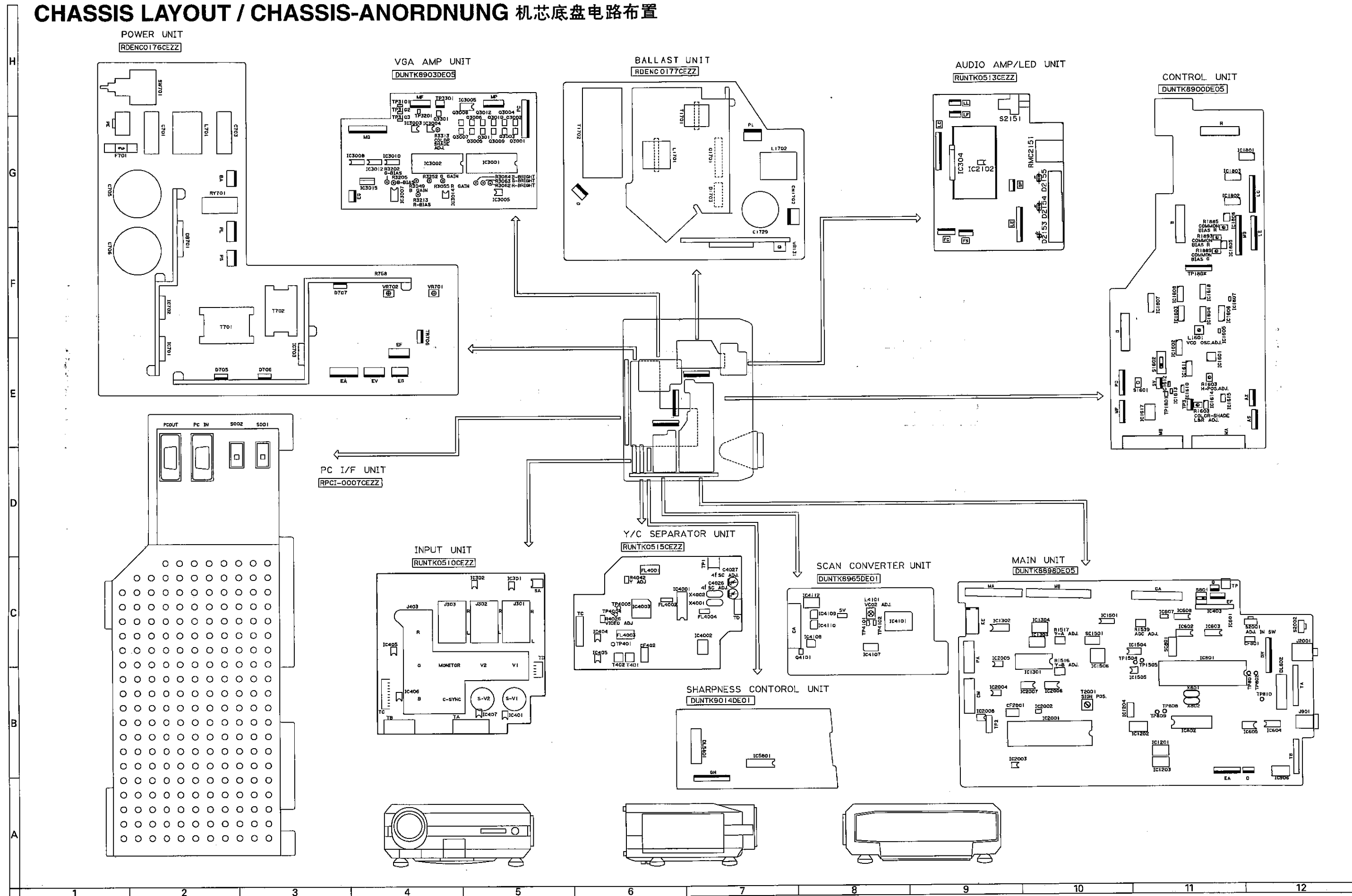


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PC/IF装置的故障检修流程图(接上页)

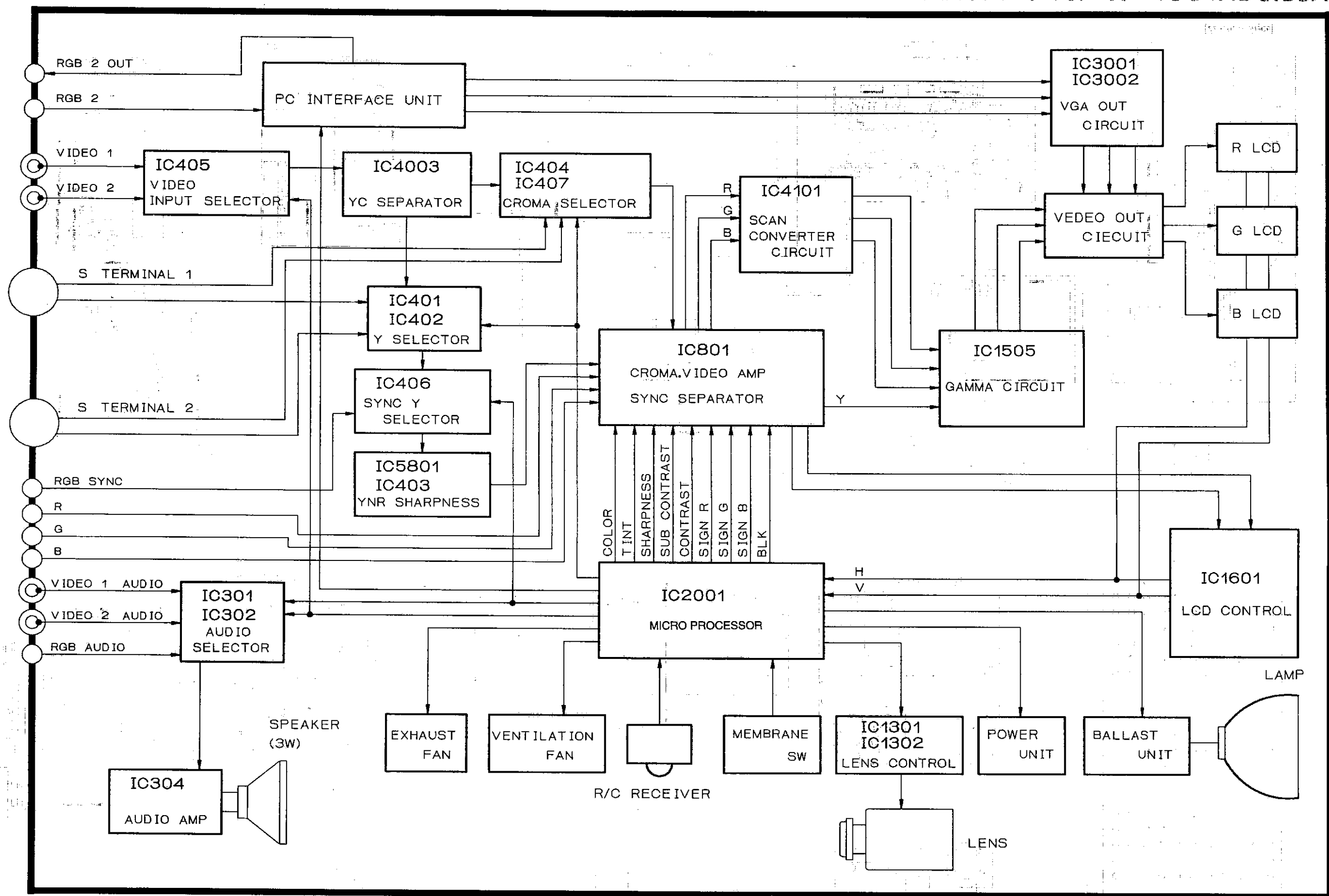


CHASSIS LAYOUT / CHASSIS-ANORDNUNG 机芯底盘电路布置



BLOCK DIAGRAM / BLOCKSCHALTBIID 电路方框图

CLASSIS / CHASSIS-ANORDNUNG / TUOYAL 2122AH0



DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 220V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20-kohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 220V. Signals are fed by a colour bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted.
(K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted.
(J=± 5%, F=± 1%, D=± 0.5%)
3. All resistors are 1/10W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
C: Solid W: Cement
S: Oxide Film T: Special
N: Metal Coating

CAPACITOR

1. All capacitors are μF, unless otherwise noted.
(P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
(ML): Mylar (TA): Tantalum
(PF): Polypro Film (ST): Styrol

CAUTION:

This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTE:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "Δ" () ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

BESCHREIBUNG DES SCHEMATISCHEN SCHALTPLANS

SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpunkten werden bei einer Netzspannung von 220V gemessen. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 kΩ/V) ermittelt.

SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpunkten werden bei einer Netzspannung von 220V verfolgt. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt.

BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

WIDERSTAND

1. Die Widerstandseinheit "Ω" wird weggelassen.
(K=kΩ=1000 Ω, M=MΩ).
2. Alle Widerstände haben ± 5%, sofern nicht anders angegeben.
(J=± 5%, F=± 1%, D=± 0.5%)
3. Alle Widerstände haben 1/10W, sofern nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofern nicht anders angegeben.
C: Fest W: Zement
S: Oxidfilm T: Spezial
N: Metallüberzug

KONDENSATOR

1. Die Kapazitätseinheit ist μF, sofern nicht anders angegeben.
(P=pF=μμF).
2. Alle Kondensatoren haben 50V, sofern nicht anders angegeben.
3. Alle Kondensatoren sind Keramikttyp, sofern nicht anders angegeben.
(ML): Mylar (TA): Tantal
(PF): Polyprofil (ST): Styrol

ACHTUNG:

bei diesem Schaltplan handelt es sich um den ursprünglichen. Es können daher geringfügige Unterschiede zu dem Ihrem bestehen.

SICHERHEITSANMERKUNGEN:

1. VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZSTECKDOSE GEZOGEN WERDEN.
2. DIE WARMEABLEITER DER HALBLEITER SOLLTEN BEIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRLICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.

WICHTIGE SICHERHEITSANMERKUNGEN:

MIT "Δ" () BEZEICHNETEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRECHTERHALTUNG DER SICHERHEIT. BEIM WECHSELN DIESER TEILE SOLLTEN DIE VORGESCHRIEBENEN TEILE IMMER VERWENDET WERDEN, UM SOWOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRECHTZUERHALTEN.

电路原理图的说明

电压测定条件:

1. 各测试点上的电压值是用AC220V电源电压来测定的。各种信号由维修专用的彩条信号发生器产生的, 各种有关电压值是用20千欧姆/伏测试仪测定的。

波形测定条件:

1. 各测试点上的波形是用AC220V电源电压观察到的。各种信号由维修专用的彩条信号发生器产生的。

电阻与电容器的表示:

电阻

1. 电阻欧姆"Ω"单位予以略记。
(K=kΩ=1000 Ω, M=兆Ω)。
2. 除特别说明者外, 所有的电阻为± 5%。
(J=± 5%, F=± 1%, D=± 0.5%)。
3. 除特别说明者外, 所有的电阻功率为1/10W。
4. 除特别说明者外, 所有的电阻为碳质。
C: 固体电阻 W: 陶瓷电阻
S: 氧化膜电阻 T: 特殊电阻
N: 金属涂层电阻

电容器

1. 除特别说明者外, 所有的电容器单位为微法(μF)。
(P=微微法=μμF)。
2. 除特别说明者外, 所有的电容器为50伏。
3. 除特别说明者外, 所有的电容器为陶瓷质。
(ML): 聚酯薄膜电容器 (TA): 钽质电容器
(PF): 聚乙烯薄膜电容器 (ST): 聚苯乙烯电容器

注意:

这里的电路原理图均为最初设计原理图, 与您的机器的电路原理图可能有不同之处。

安全使用注意事项:

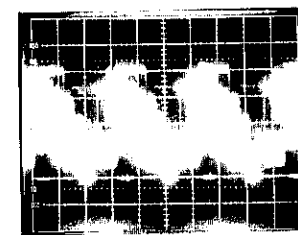
1. 在进行部件更换之前, 务请拔出电源插头。
2. 本装置工作时, 机芯底座的半导体散热片有触电之虞, 务请注意。

安全使用注意要点:

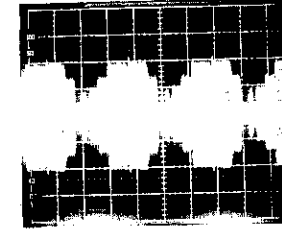
标有"Δ" () 的部件对于投影机安全的维护有至关重要的意义。为了维护本机的安全和使本机能正常工作, 必须使用指定品来更换这些部件。

WAVEFORMS
WELLENFORMEN

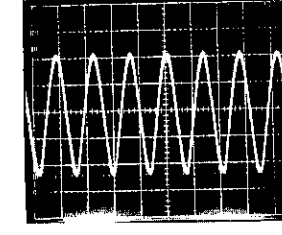
波形图



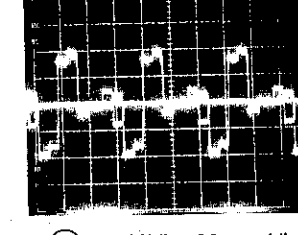
① 0.5V/div, 20μsec/div



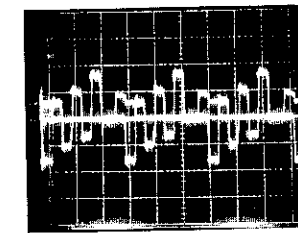
② 0.2V/div, 20μsec/div



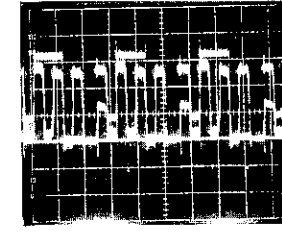
③ 0.5V/div, 50μsec/div



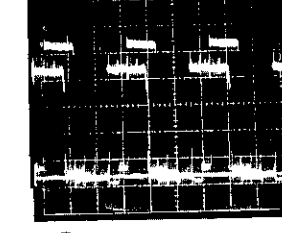
④ 0.2V/div, 20μsec/div



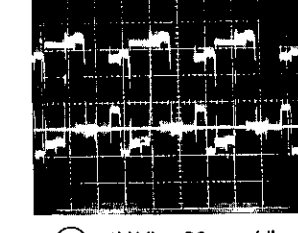
⑤ 0.2V/div, 20μsec/div



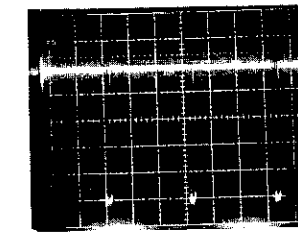
⑥ 1V/div, 20μsec/div



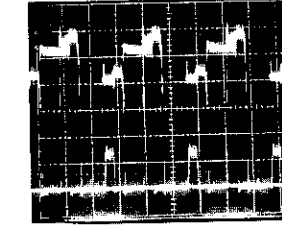
⑦ 1V/div, 20μsec/div



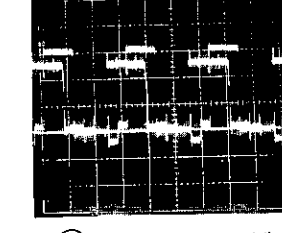
⑧ 1V/div, 20μsec/div



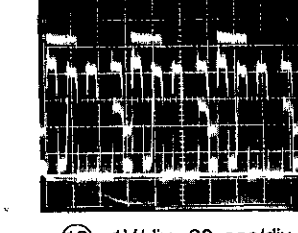
⑨ 1V/div, 20μsec/div



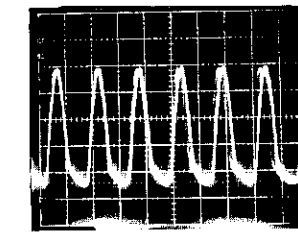
⑩ 1V/div, 20μsec/div



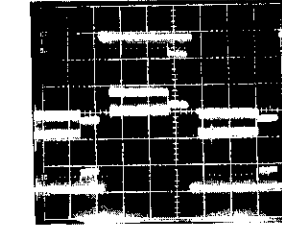
⑪ 1V/div, 20μsec/div



⑫ 1V/div, 20μsec/div



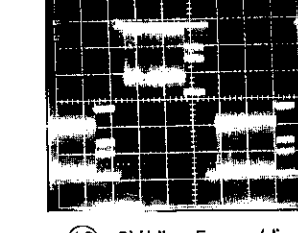
⑬ 0.1V/div, 0.1μsec/div



⑭ 2V/div, 5msec/div

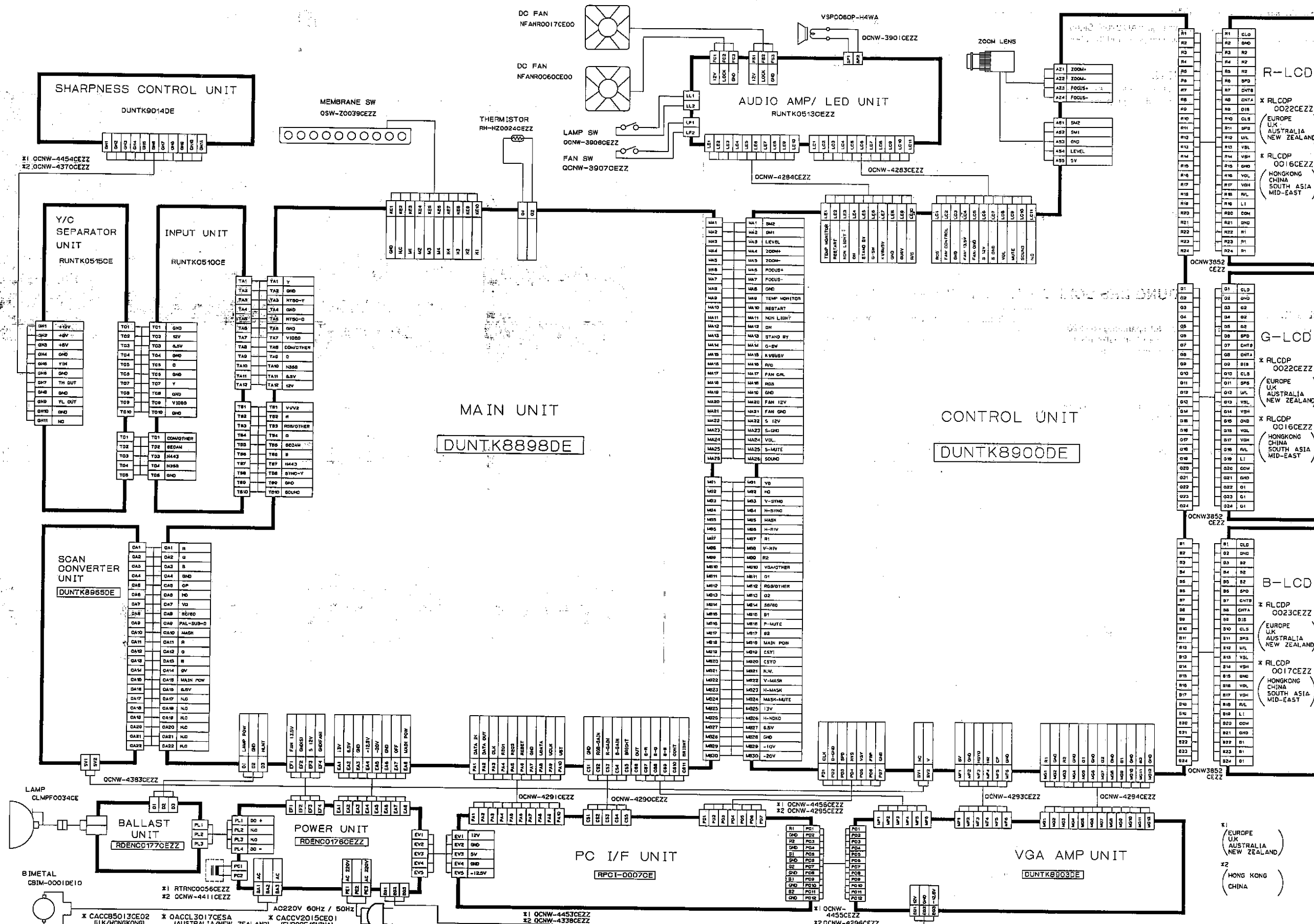


⑮ 2V/div, 5msec/div

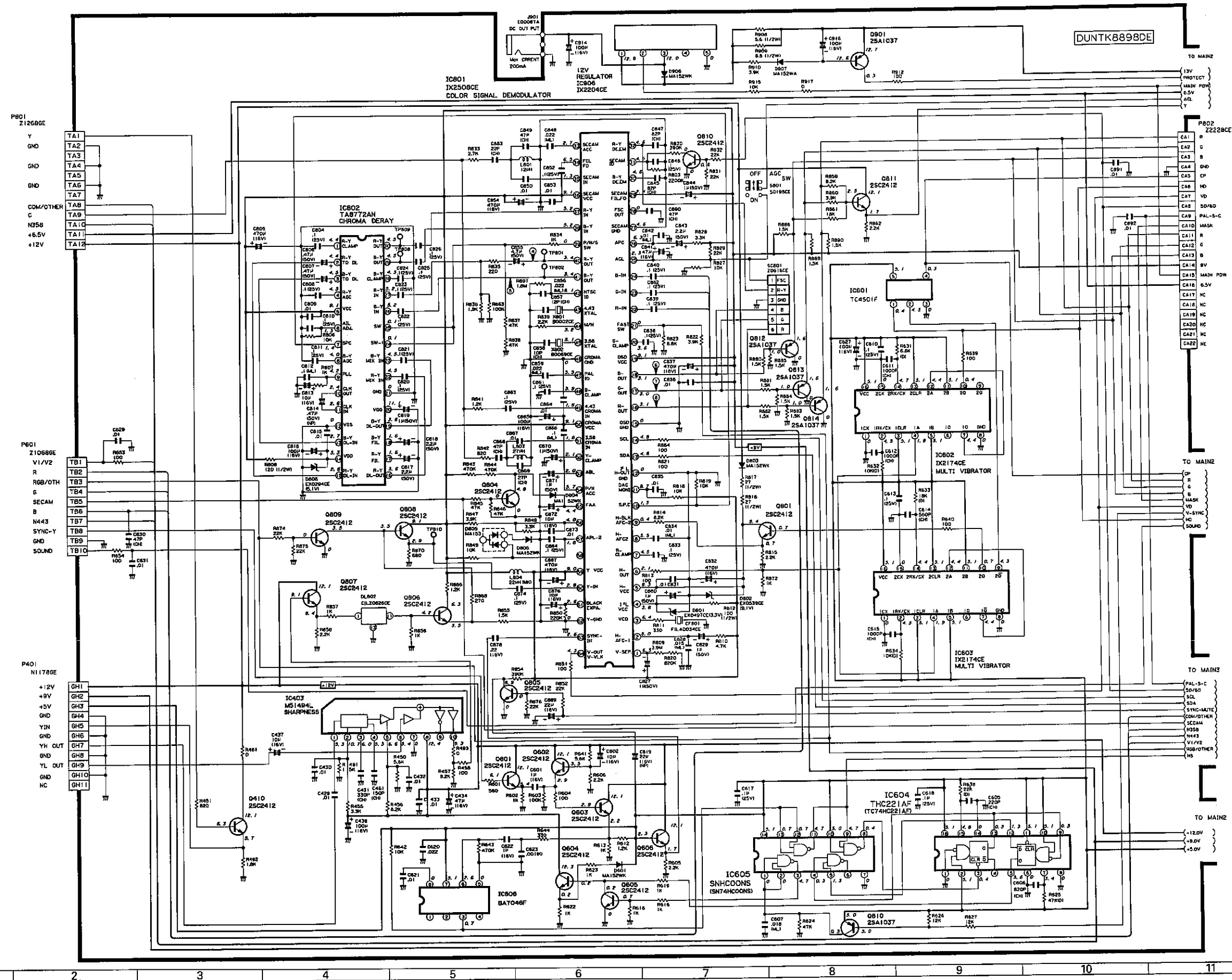


⑯ 2V/div, 5msec/div

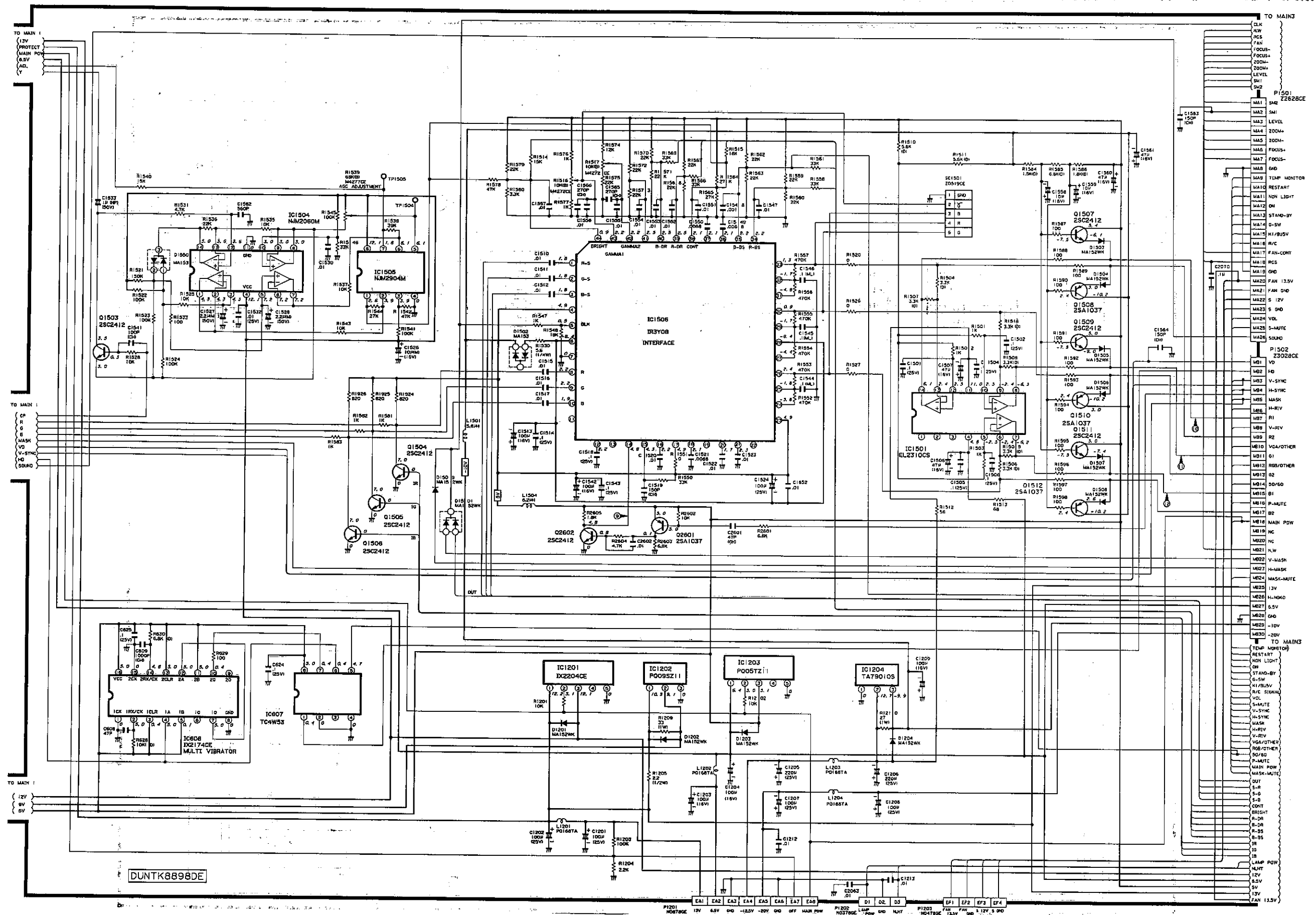
OVERALL WIRING DIAGRAM / GESAMTSCHALTPLAN 整体印刷电路图



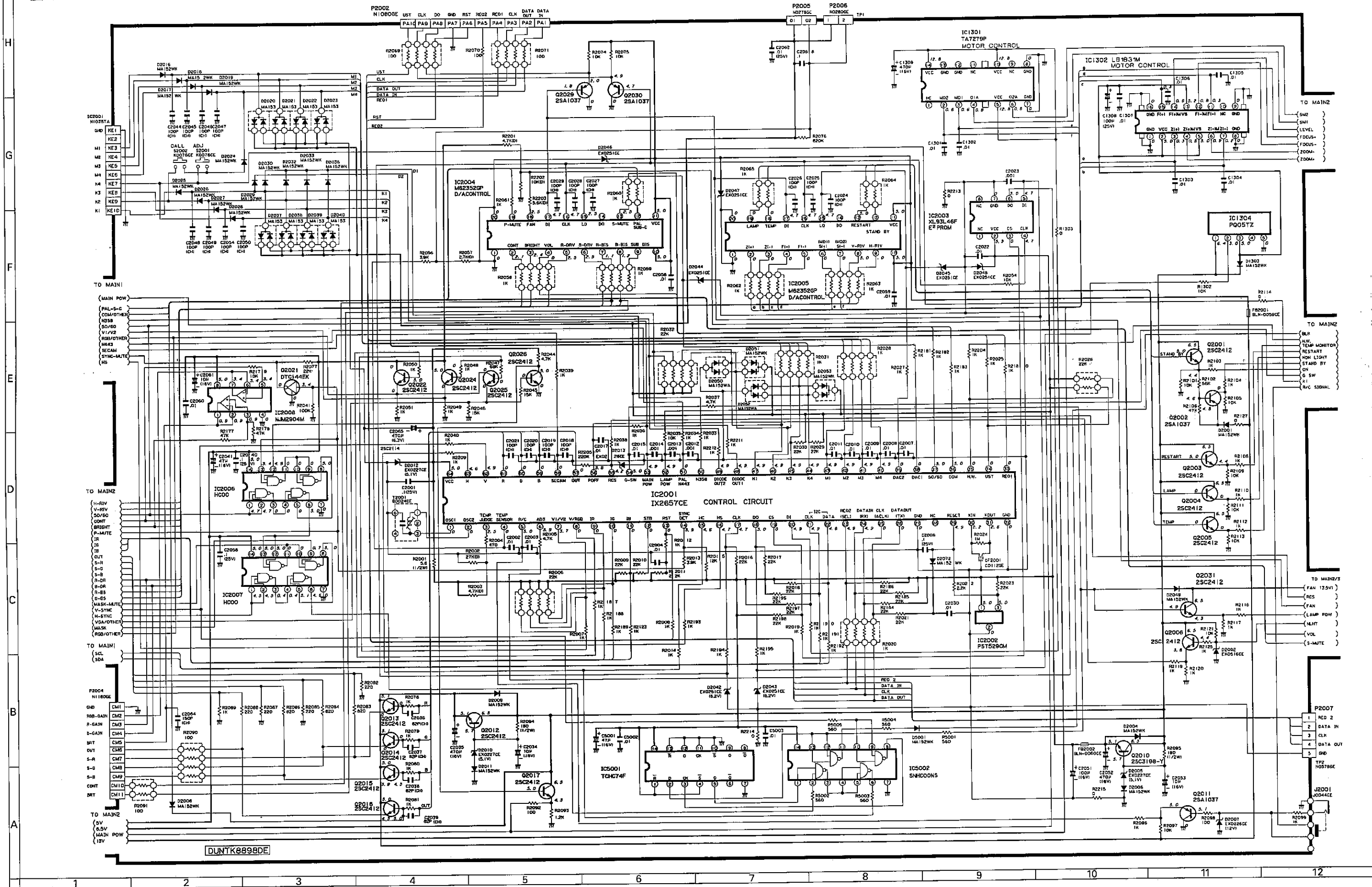
MAIN UNIT-1/3 / HAUPT-EINHEIT-1/3 主装置电路-1/3



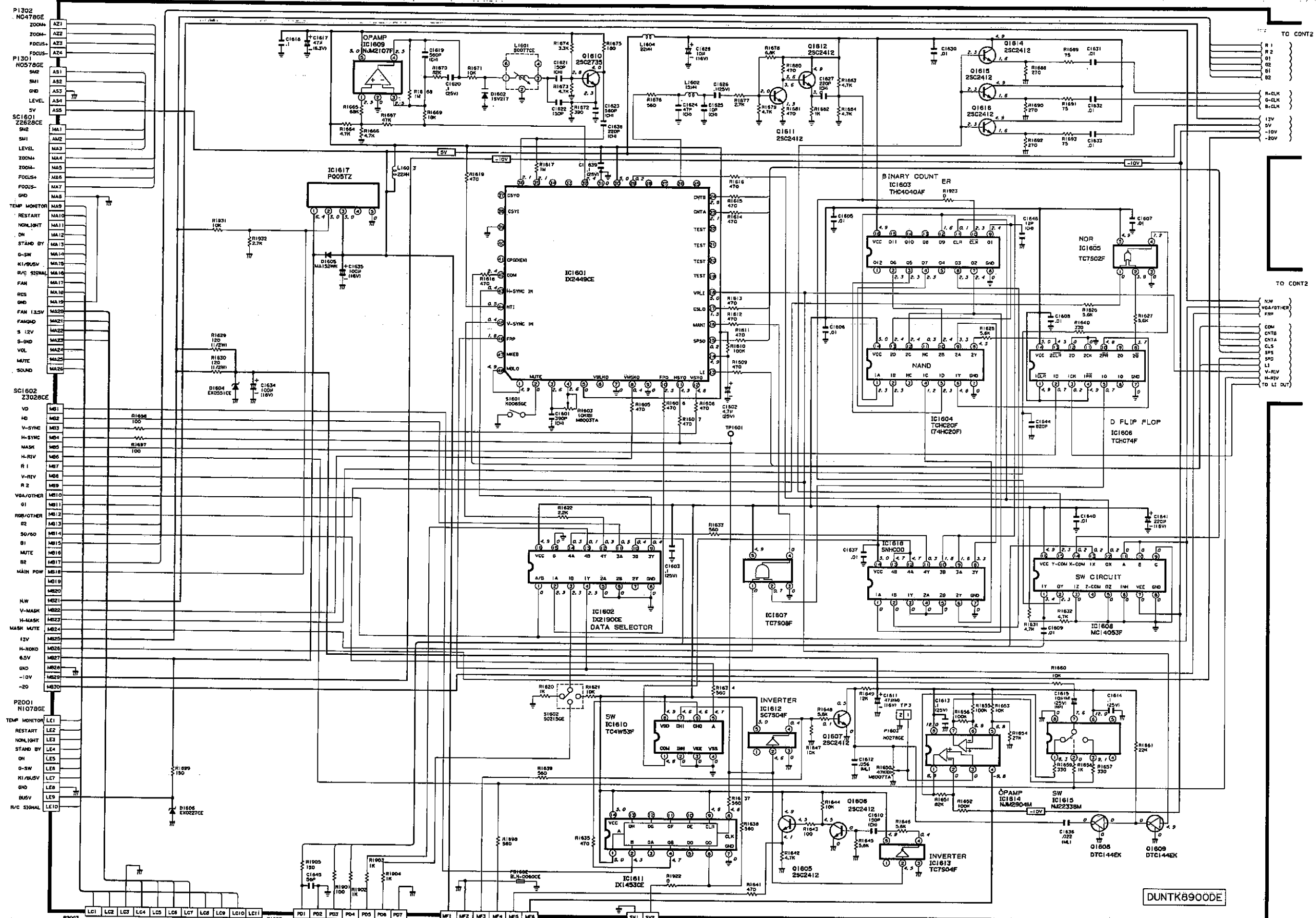
■ MAIN UNIT-2/3 / HAUPT-EINHEIT-2/3 主装置电路—2/3



■ MAIN UNIT-3/3 / HAUPT-EINHEIT-3/3 主装置电路-3/3



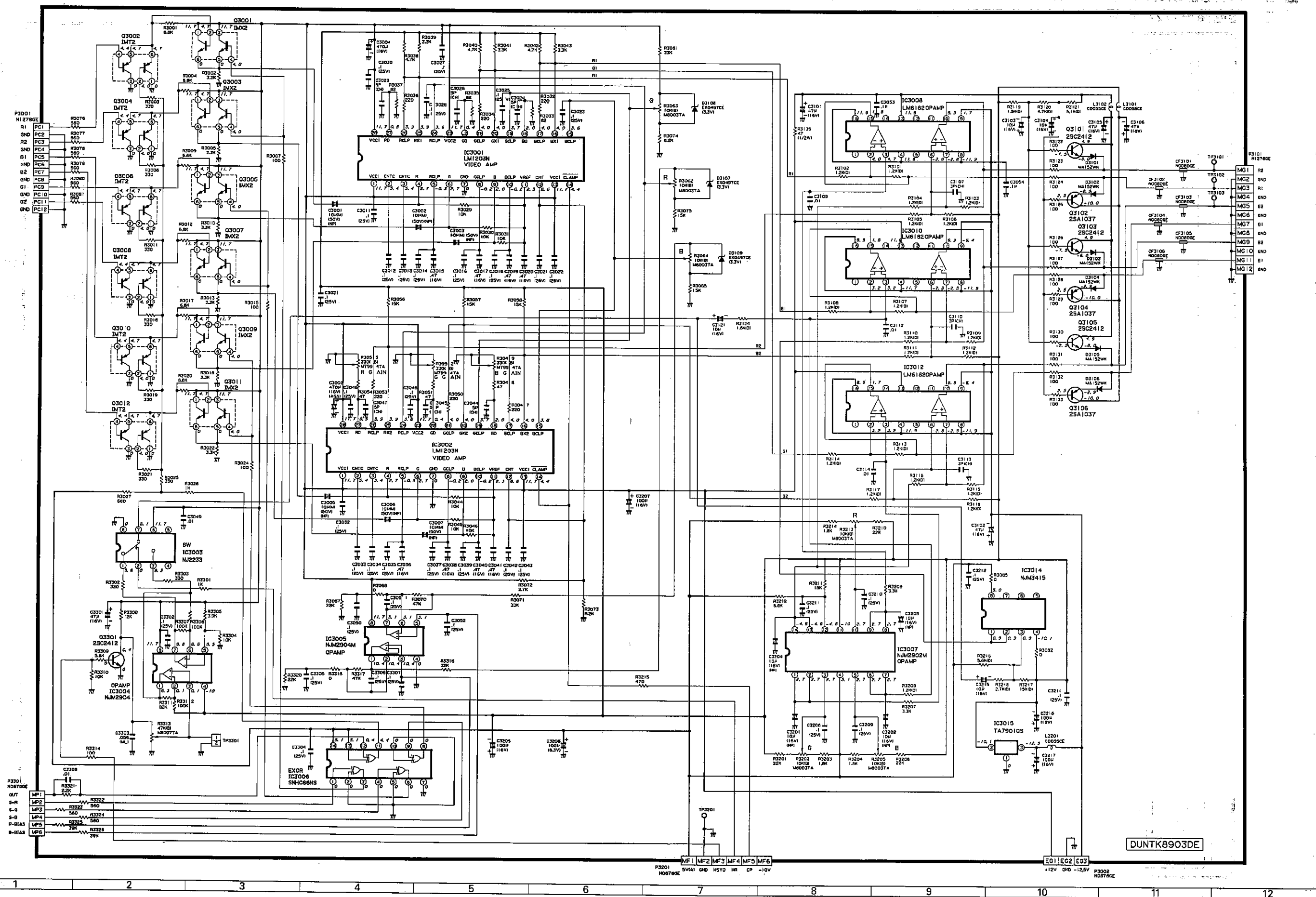
CONTROL UNIT-1/2 / STEUERWERK-EINHEIT-1/2 控制器电路-1/2



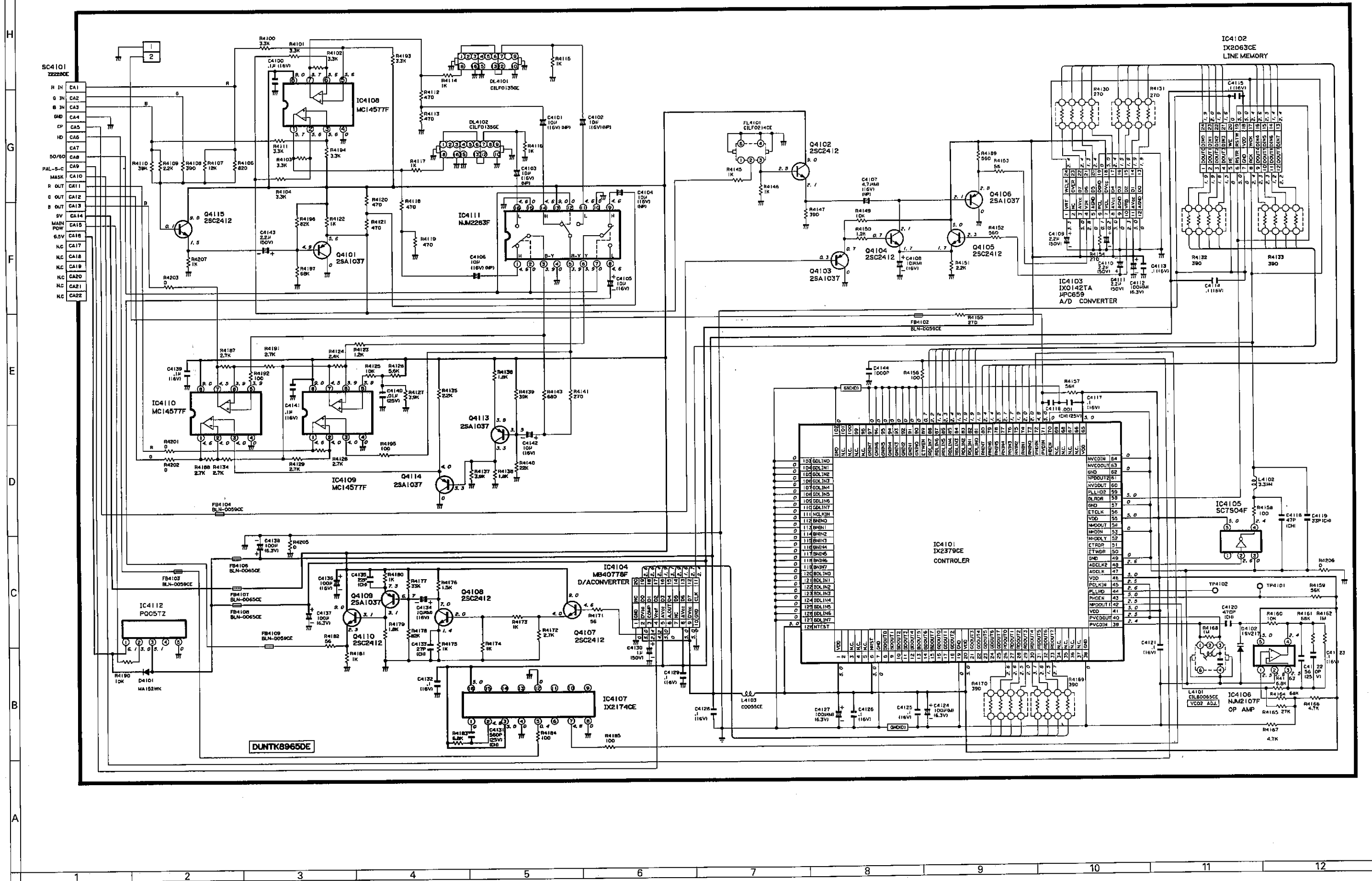
控制器电路—2/2与音频信号放大器/LED装置电路



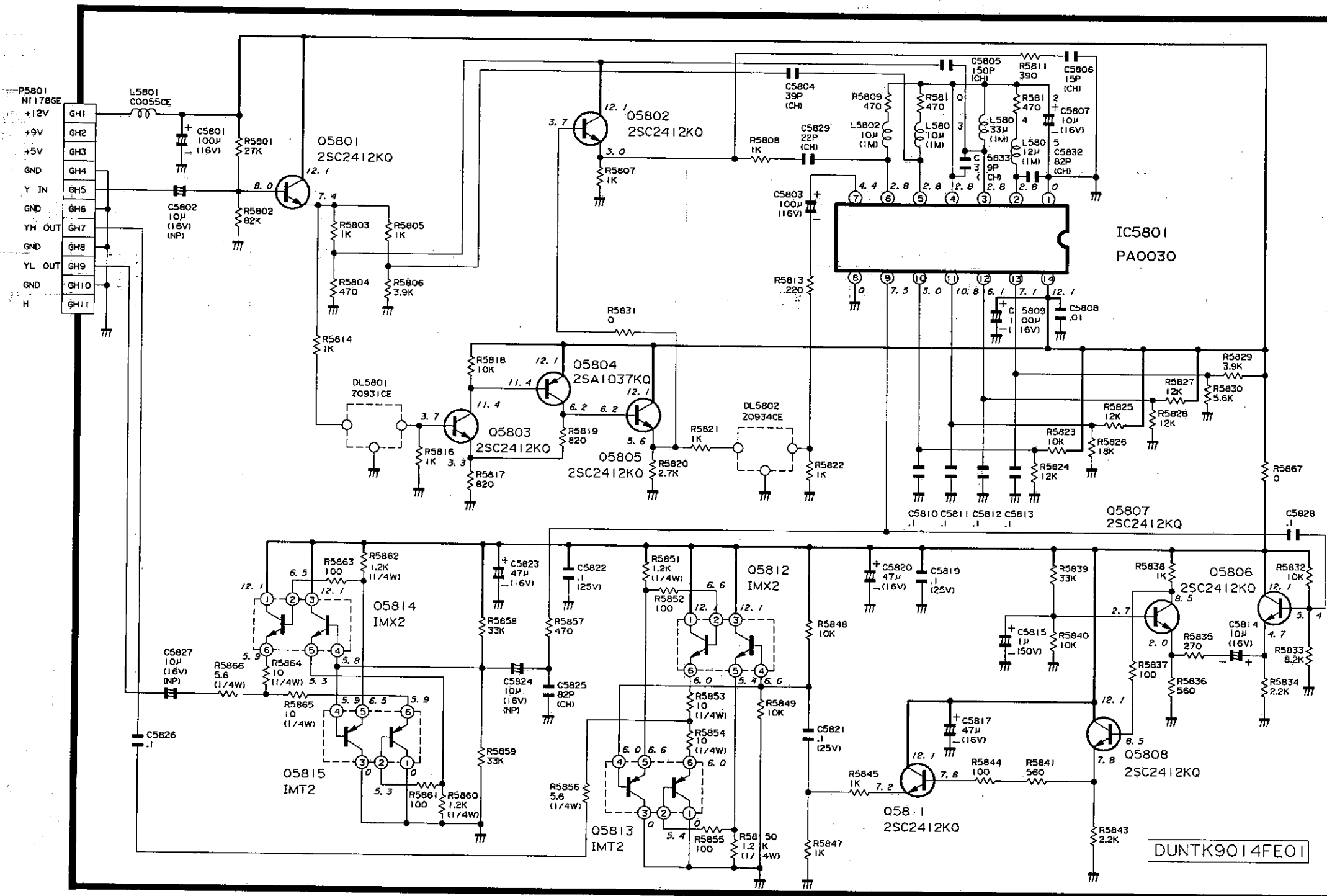
■ VGA AMP UNIT / VGA-VERSTÄRKER-EINHEIT VGA放大器电路



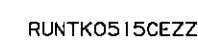
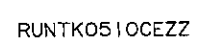
■ SCAN CONVERTER UNIT / ABTAST-KONVERTER-EINHEIT 扫描行数变换器电路



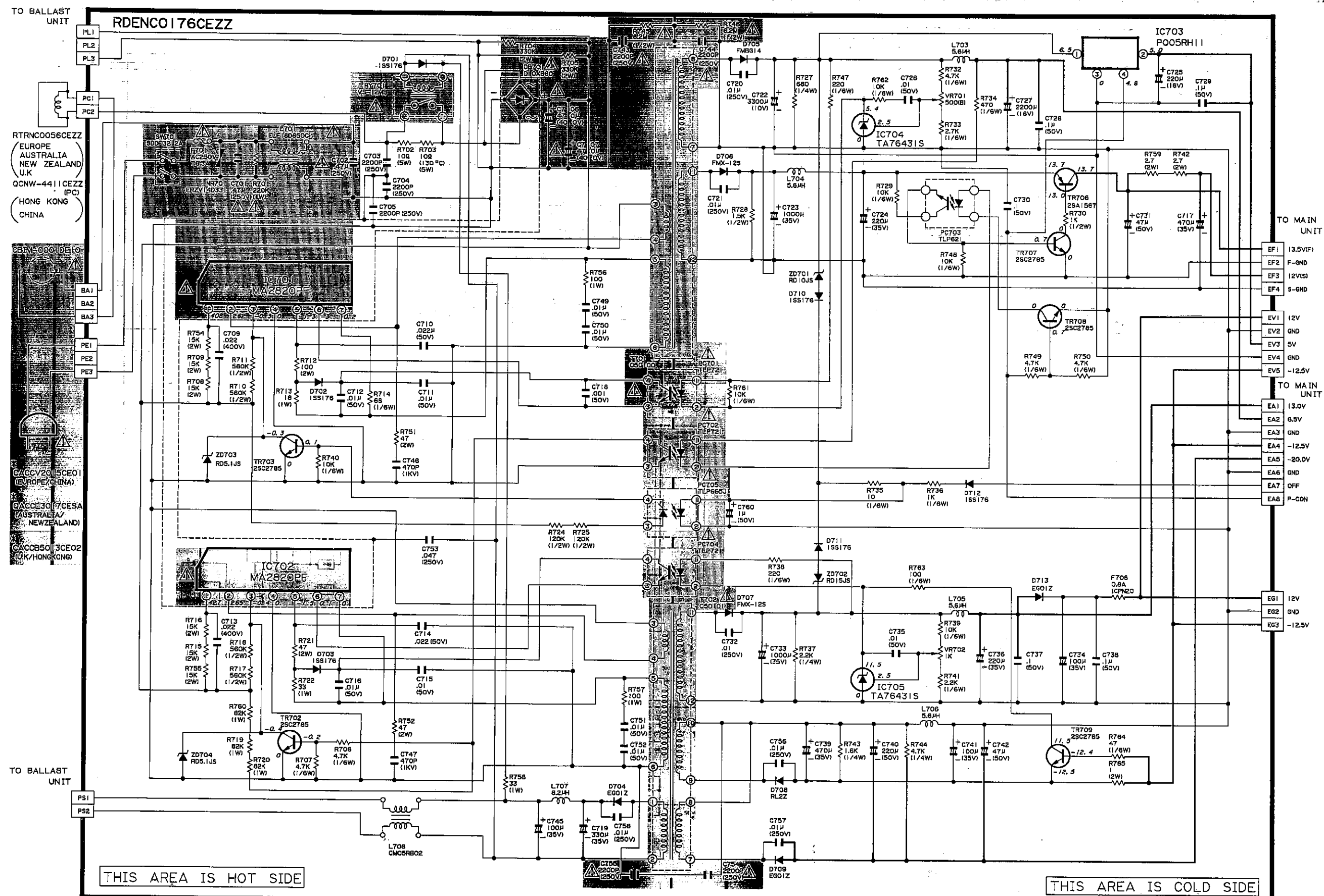
SHARPNESS CONTROL UNIT / SCHARFEINSTELL-EINHEIT 鲜明度控制器电路



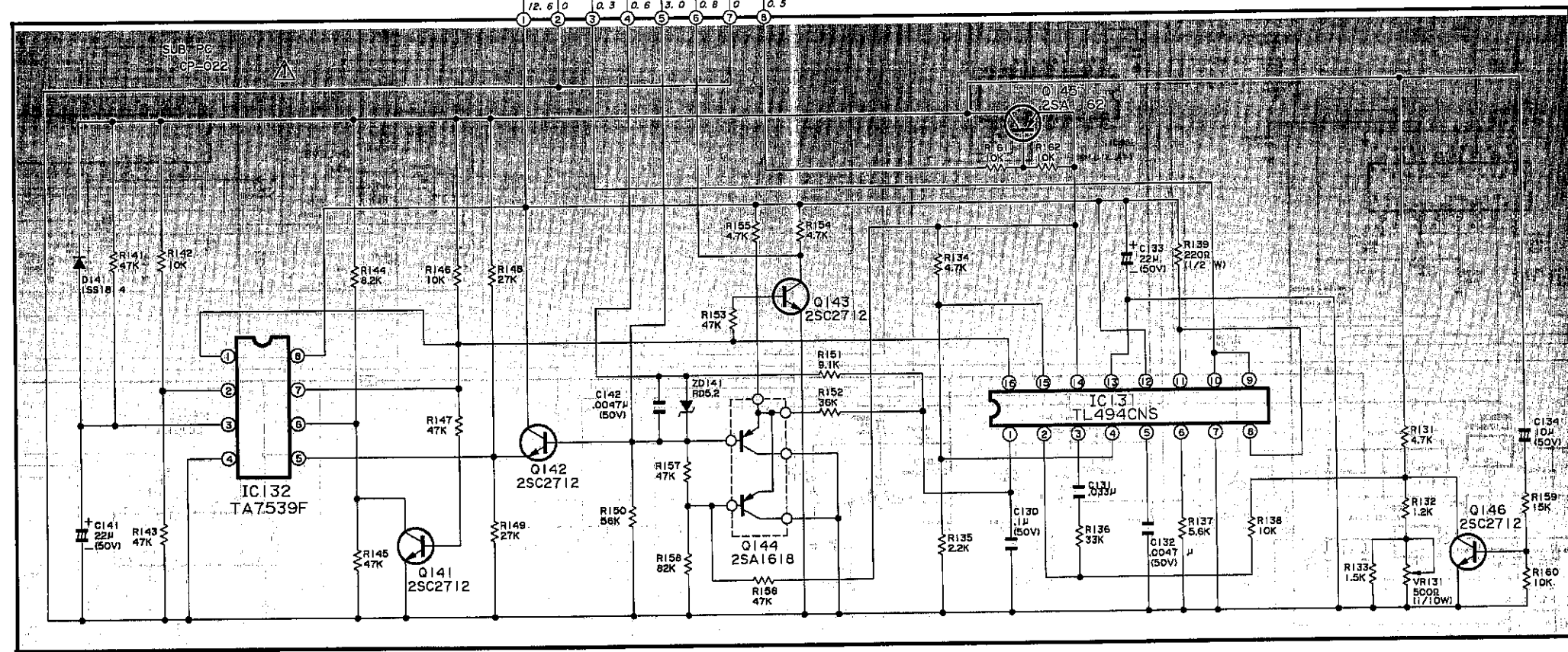
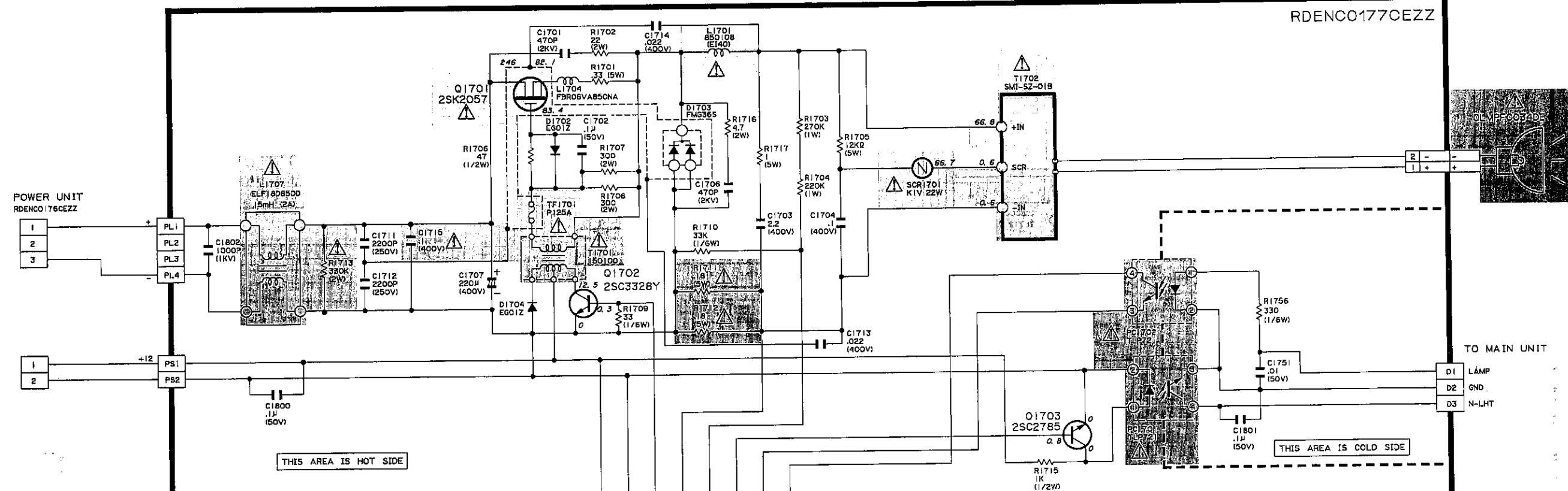
1



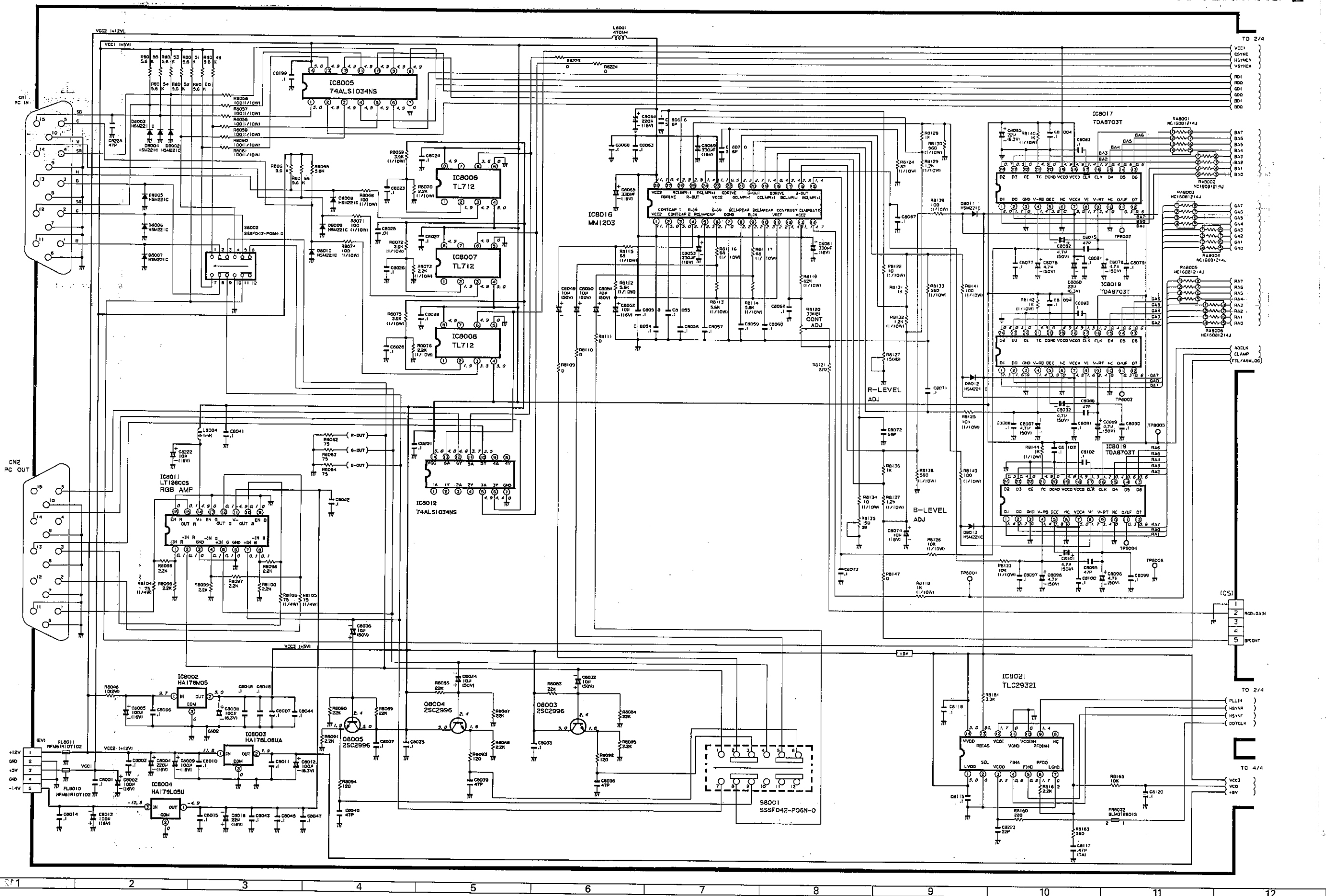
■ POWER UNIT / NETZ-EINHEIT 电源装置电路



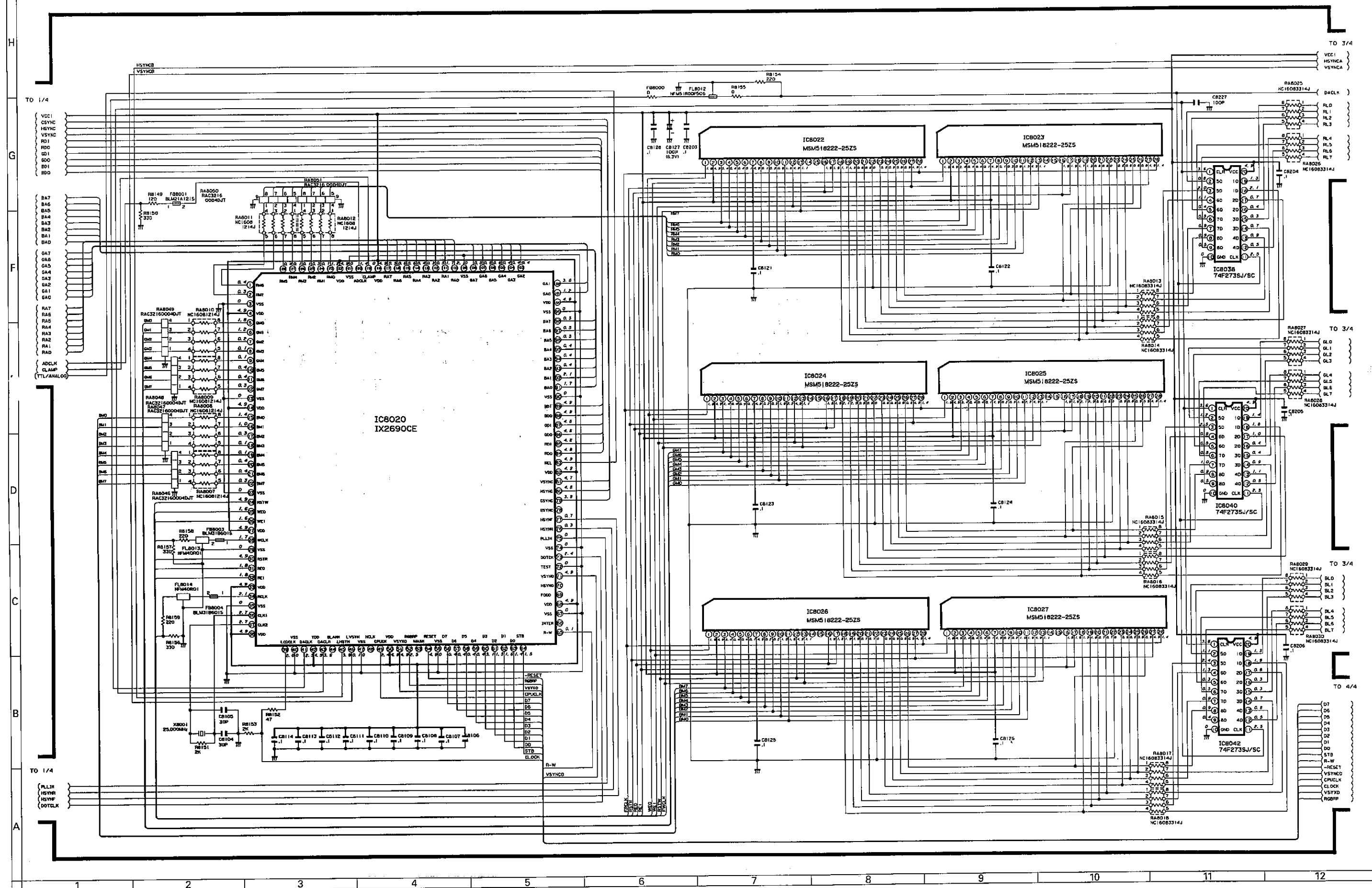
■ BALLAST UNIT / VORSCHALT-EINHEIT 镇流器电路



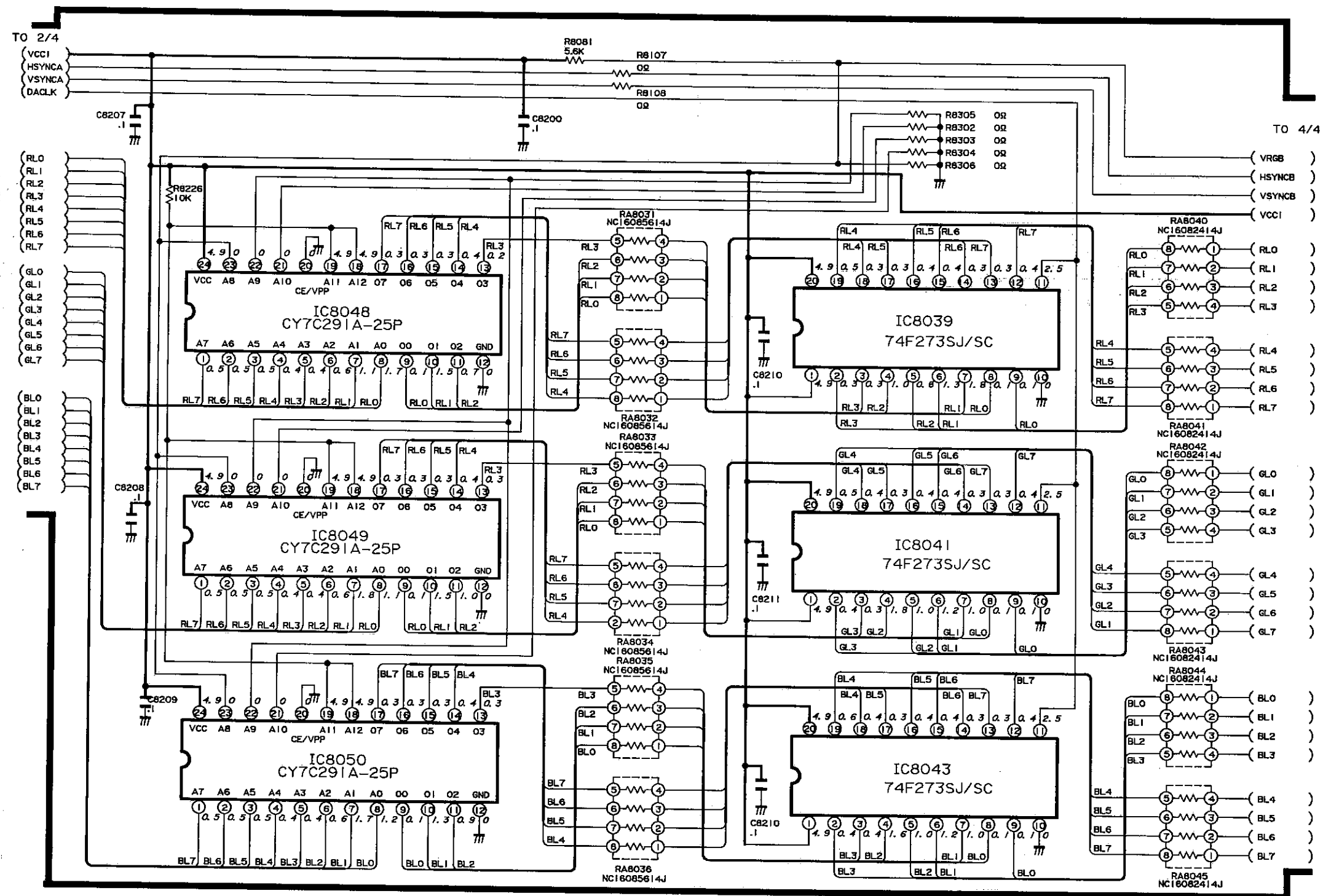
PC I/F UNIT-1/4 / PC-I/F-EINHEIT-1/4 PC I/F装置电路-1/4



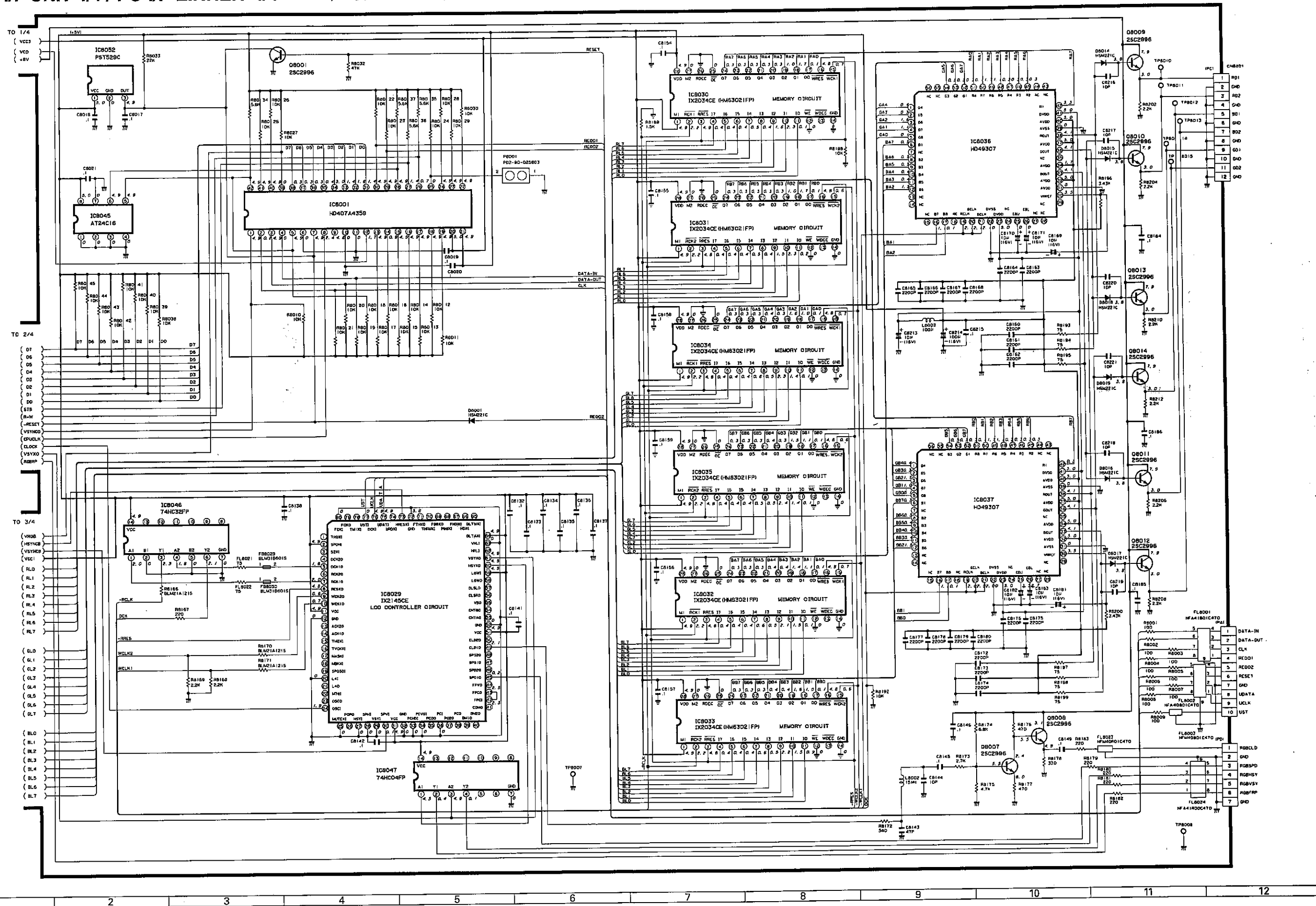
■ PC I/F UNIT-2/4 / PC-I/F-EINHEIT-2/4 PC I/F装置电路一2/4

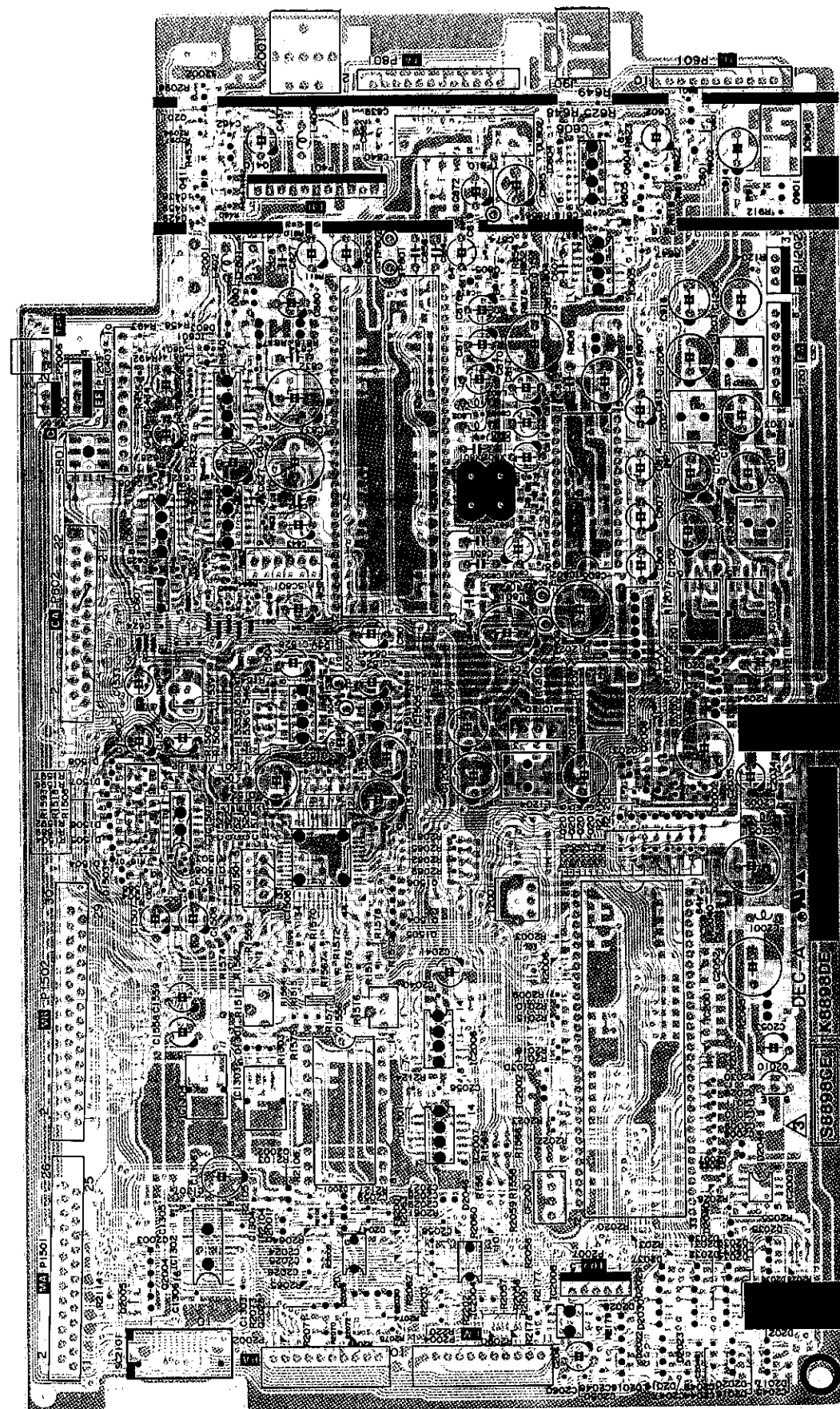


■ PC I/F UNIT-3/4 / PC-I/F-EINHEIT-3/4 PC I/F装置电路-3/4

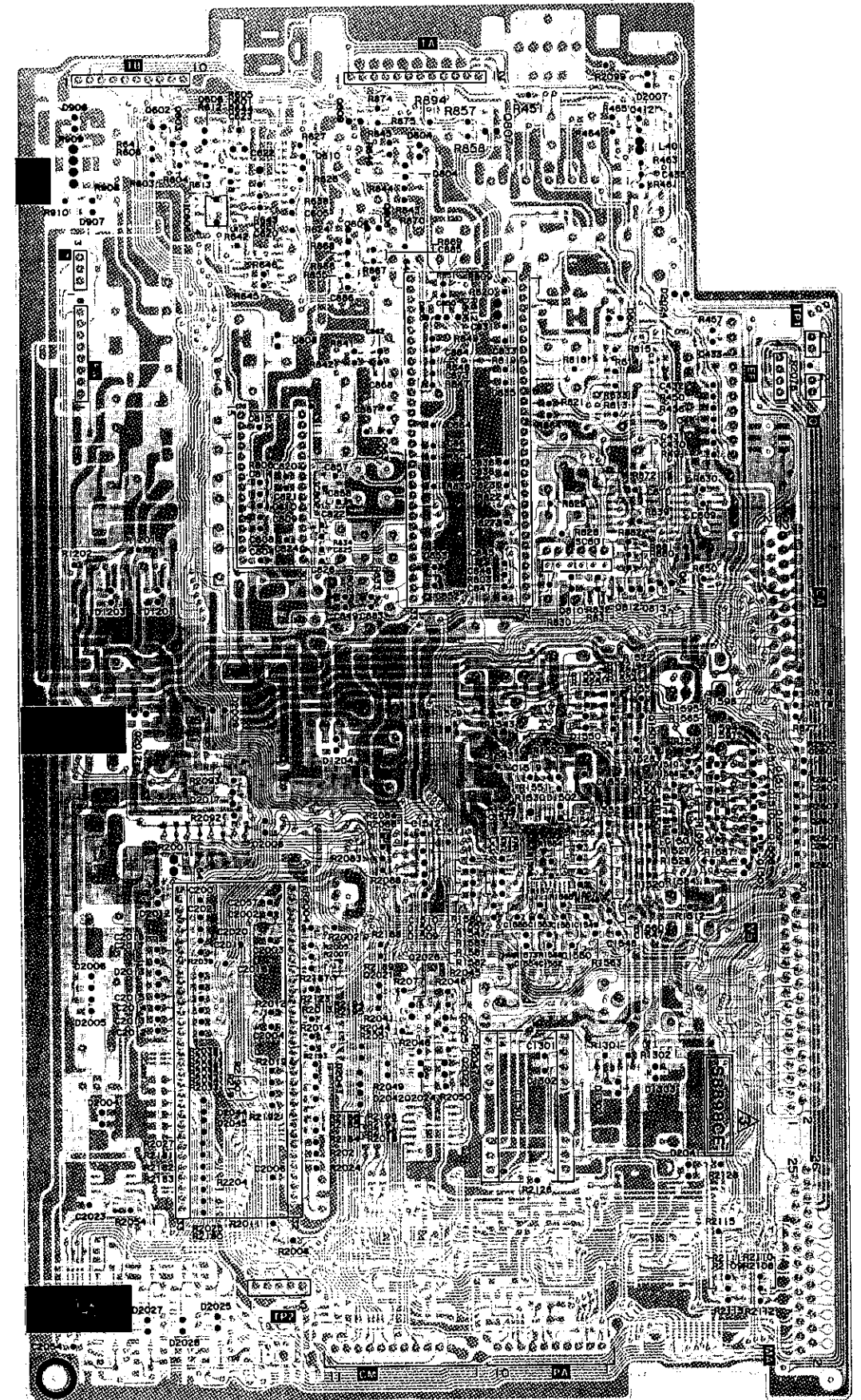


■ PC I/F UNIT-4/4 / PC-I/F-EINHEIT-4/4 PC I/F装置电路-4/4

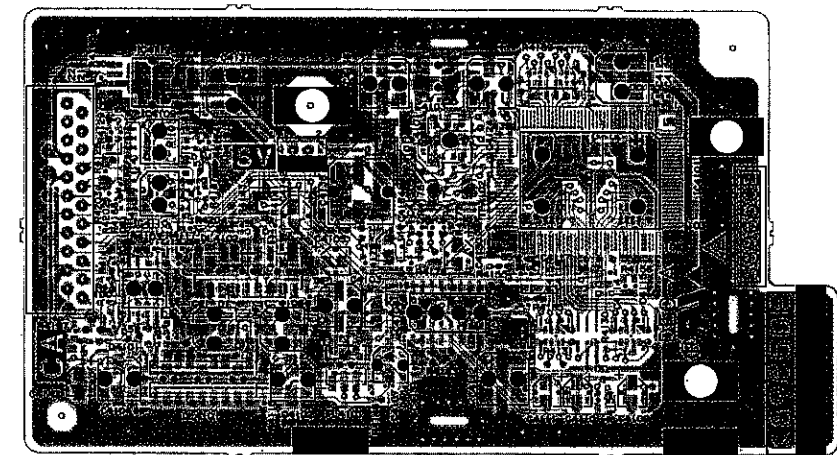




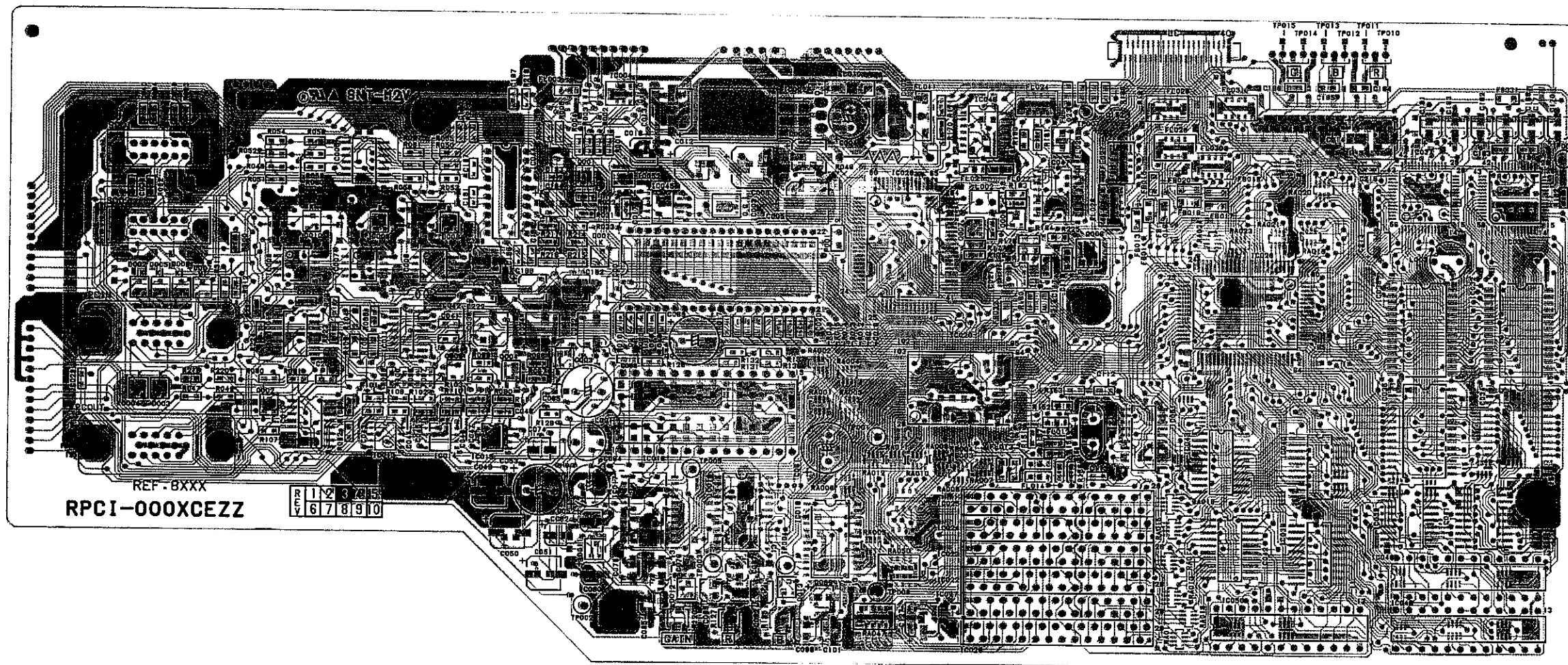
Main Unit (Component Side) / Haupt-Einheit (Bestückungsseite) 主装置印刷电路板(部件装备侧)



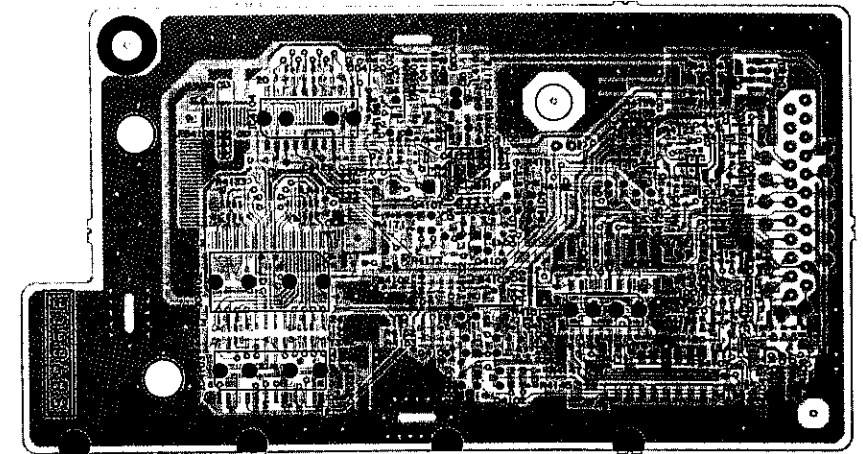
Main Unit (Wiring Side) / Haupt-Einheit (Leiterbahnseite) 主装置印刷电路板(线路贴置侧)



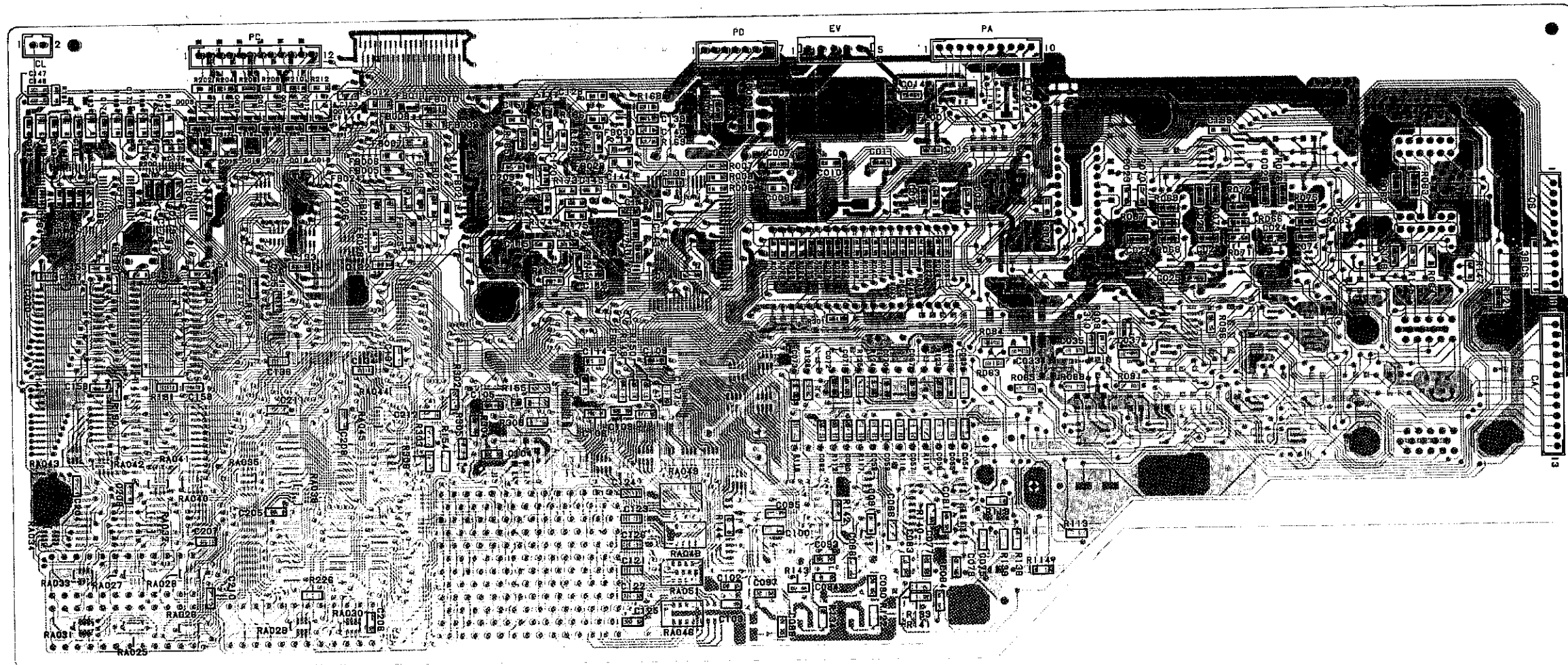
Scan Converter Unit (Component Side) / Abtast-Konverter-Einheit (Bestückungsseite)
扫描行数变换器印刷电路板(部件装备侧)



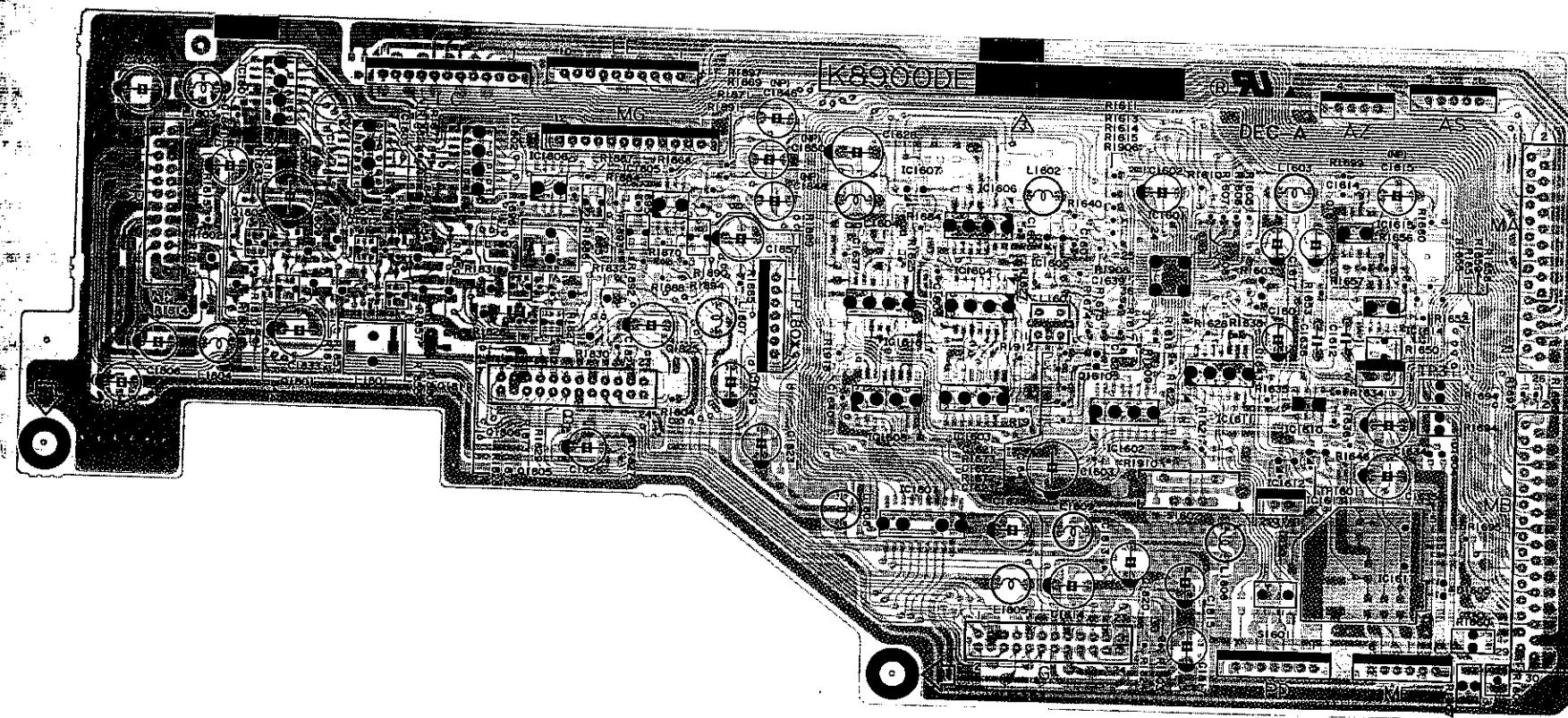
PC I/F Unit (Component Side) / PC-I/F-Einheit (Bestückungsseite) PC I/F装置印刷电路板(部件装备侧)



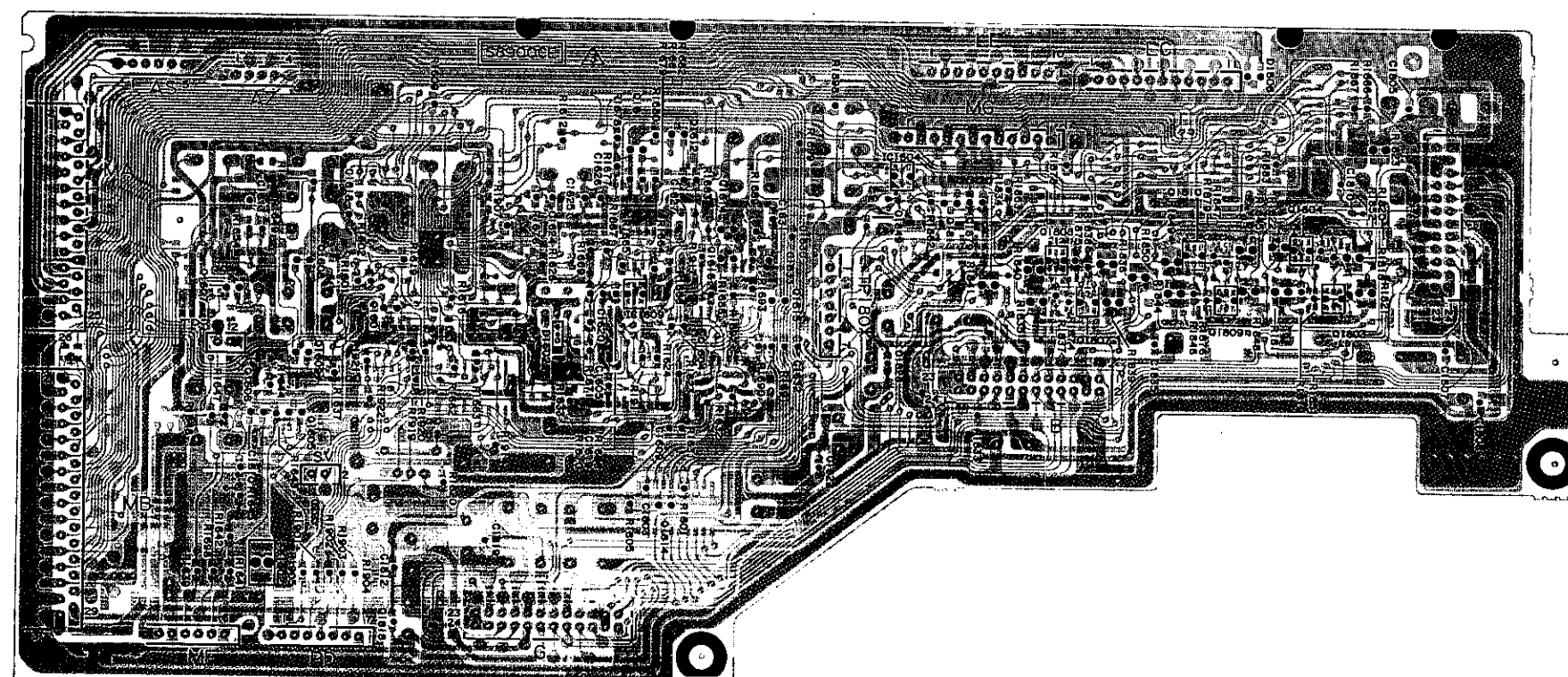
Scan Converter Unit (Wiring Side) / Abtast-Konverter-Einheit (Leiterbahnseite)
扫描行数变换器印刷电路板(线路贴置侧)



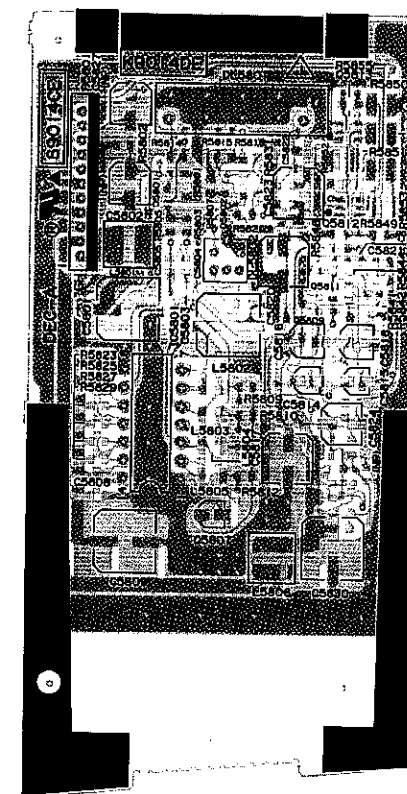
PC I/F Unit (Wiring Side) / PC-I/F-Einheit (Leiterbahnseite) PC I/F装置印刷电路板(线路贴置侧)



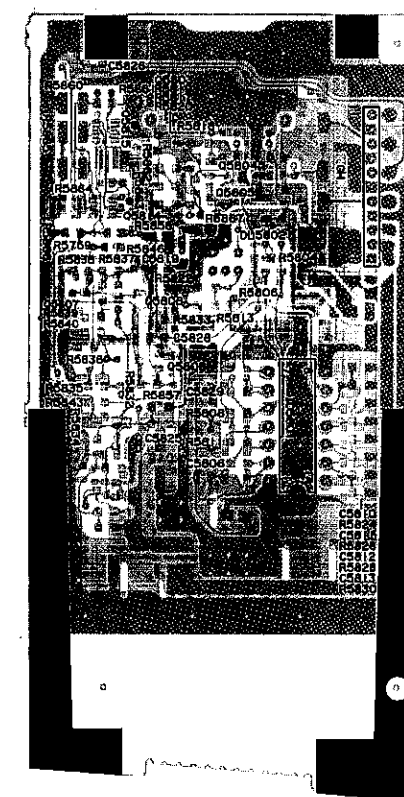
Control Unit (Component Side) / Steuerwerk-Einheit (Bestückungsseite) 控制器印刷电路板(部件装备侧)



Control Unit (Wiring Side) / Steuerwerk-Einheit (Leiterbahnseite) 控制器印刷电路板(线路贴置侧)



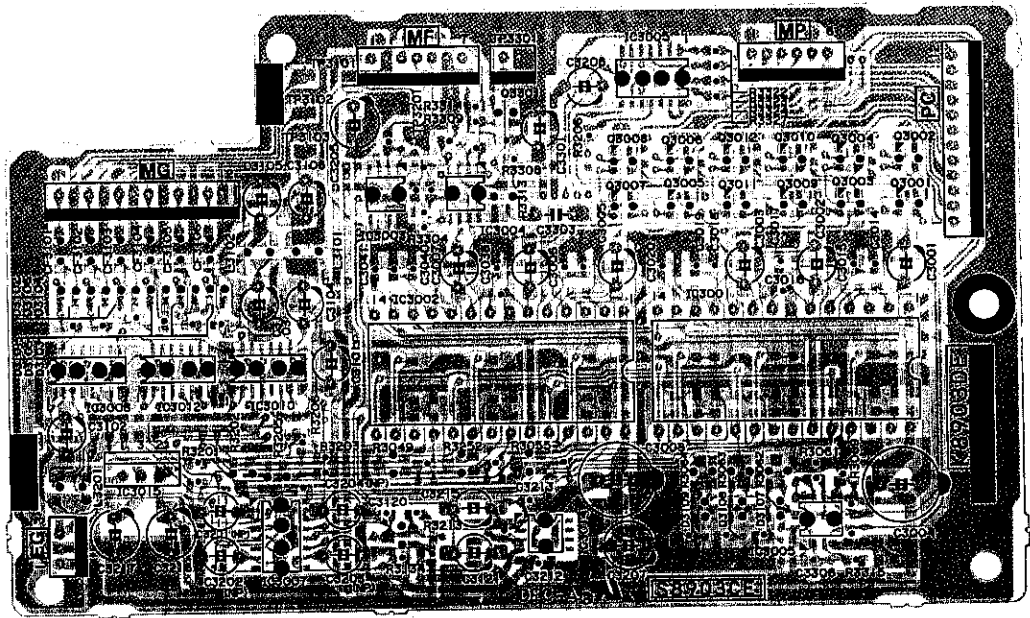
Sharpness Control Unit (Component Side) / Scharfeinstell-Einheit (Bestückungsseite) 鲜明度控制器印刷电路板(部件装备侧)



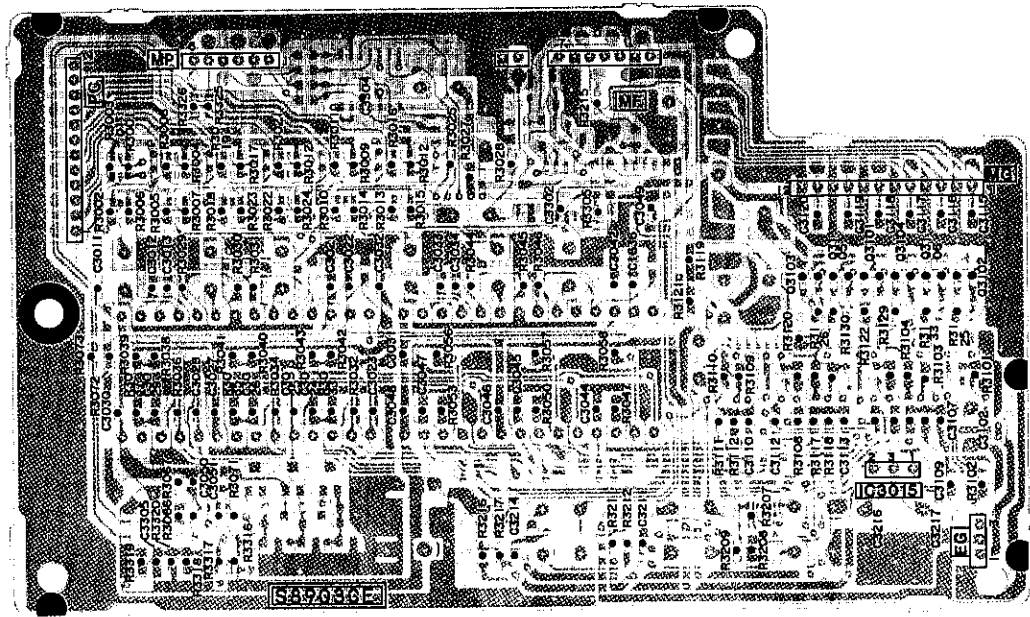
Sharpness Control Unit (Wiring Side) / Scharfeinstell-Einheit (Leiterbahnseite) 鲜明度控制器印刷电路板(线路贴置侧)

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1 2 3 4 5 6

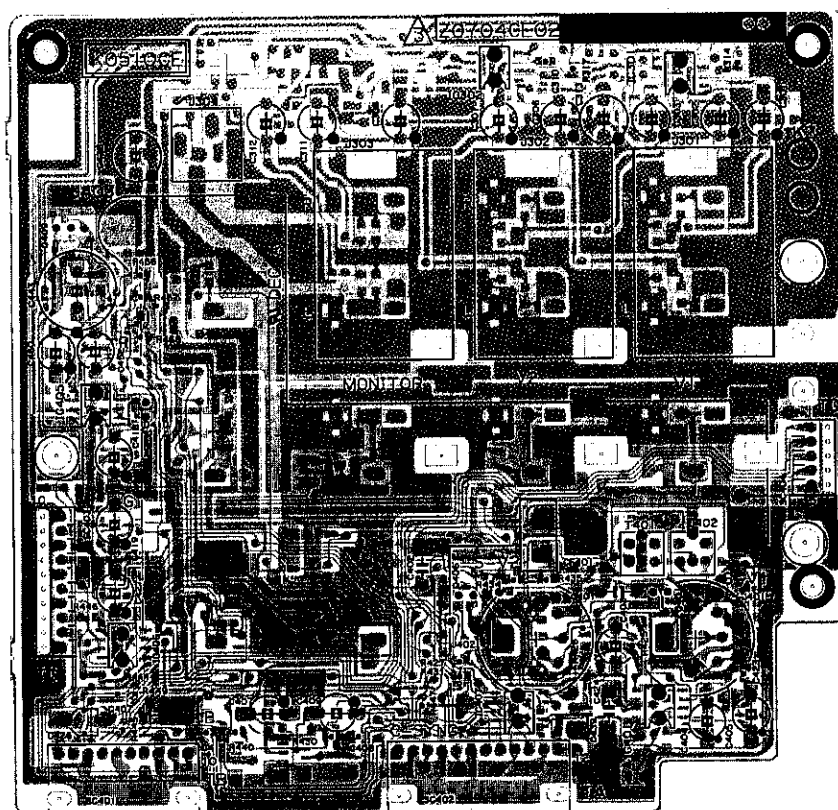


VGA Amp Unit (Component Side) /
VGA-Verstärker-Einheit (Bestückungsseite)
VGA放大器印刷电路板(部件装备侧)

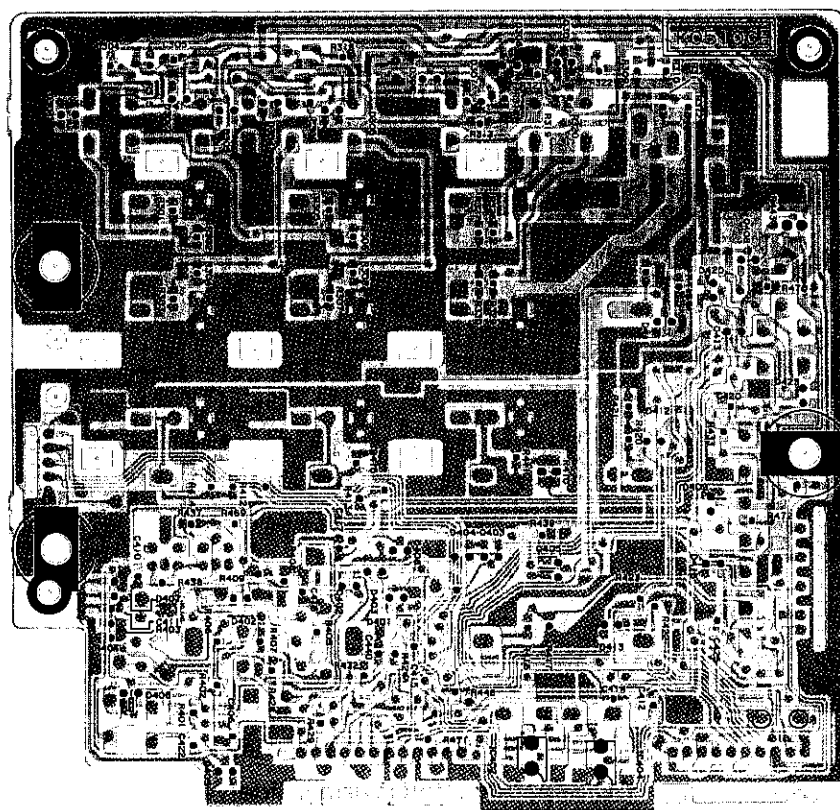


VGA Amp Unit (Wiring Side) /
VGA-Verstärker-Einheit (Leiterbahnseite)
VGA放大器印刷电路板(线路贴置侧)

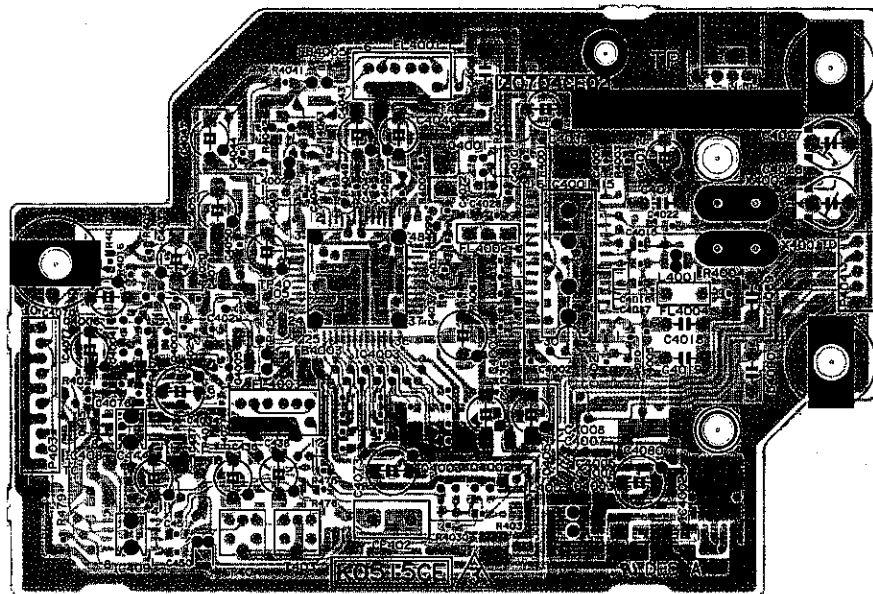




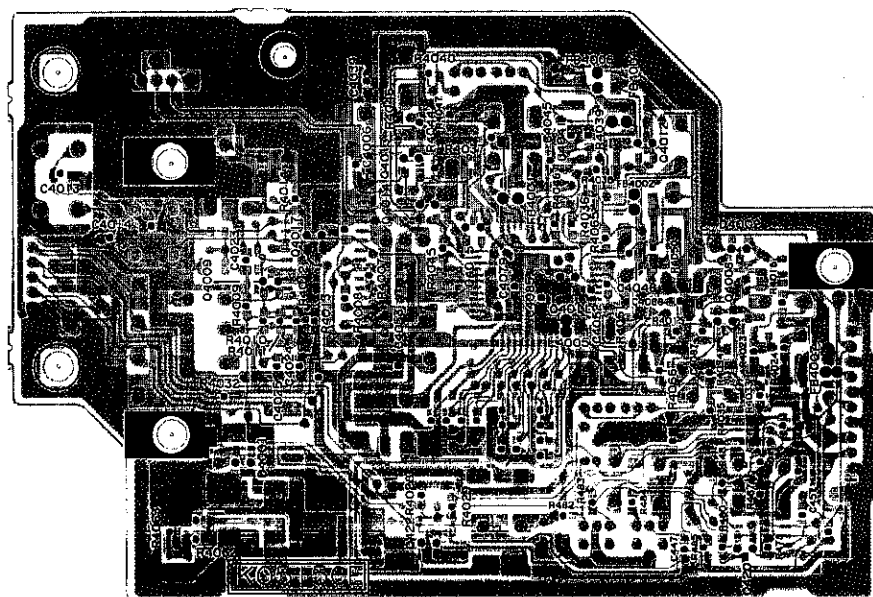
Input Unit (Component Side) / Eingangs-Einheit (Bestückungsseite) 输入装置印刷电路板(部件装备侧)



Input Unit (Wiring Side) / Eingangs-Einheit (Leiterbahnseite) 输入装置印刷电路板(线路贴置侧)



Y/C Separator Unit (Component Side) /
Y/C-Trennstufe-Einheit (Bestückungsseite)
亮度/色度信号分离装置印刷电路板(部件装备侧)



Y/C Separator Unit (Wiring Side) /
Y/C-Trennstufe-Einheit (Leiterbahnseite)
亮度/色度信号分离装置印刷电路板(线路贴置侧)

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "△" in the Replacement Parts Lists.

The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |
| 5. CODE | 6. QUANTITY |

MARK ★: SPARE PARTS-DELIVERY SECTION

TEILLISTE

AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschaften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenschaften sind in den Ersatzteil durch "△" gekennzeichnet. Der Gebrauch von Ersatzteilen, die nicht dieselben Sicherheitseigenschaften haben wie die vom Hersteller empfohlenen und in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

"WIE MAN ERSATZTEILE BESTELLT"

Damit Ihre Bestellung prompt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

- | | |
|-------------------|-----------------|
| 1. MODELL NR. | 2. REF. NR. |
| 3. ERSATZTEIL NR. | 4. BESCHREIBUNG |
| 5. KODE | 6. QUANTITÄT |

MARKIERUNG ★: ERSATZTEILE-LIEFERUNG

更换零件表

更换零件

本维修说明书对具有特别安全要求的零件均用标记加以识别。在此更换零件表中, 具有特别安全要求的电路元件均用△标记以便注意识别。更换零件时, 为了用户的安全以及电视机原有的工作性能, 务请使用夏普规定零件。否则, 可能有导致触电、火灾或其他不测事故发生的可能。

更换零件的订货方法

为了能迅速而确实地接受订货、以及正确无误地按时交货, 在订货时请将下列各项明确告知。

- | | |
|---------|---------|
| 1. 型号 | 2. 参考编号 |
| 3. 零件编号 | 4. 零件名称 |
| 5. 代号 | 6. 数量 |

附★记号为备用部件的交货部门

Ref. No. Part No. ★ Description Code

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

DUNTK8898DE05	— Main Unit	—
DUNTK8900DE05	— Control Unit	—
DUNTK8903FE05	— VGA Amp. Unit	—
DUNTK8965FE01	— Scan Converter Unit	—
DUNTK9014FE01	— Sharpness Control Unit	—
RUNTK0510CEZZ	— Input Unit	—
RUNTK0513CEZZ	— Audio Amp./LED Unit	—
RUNTK0515CEZZ	— Y/C Separator Unit	—
RDENC0176CEZZ	— Power Unit	—
RDENC0177CEZZ	— Ballast Unit	—
RPCi-0007CEZZ	— PC I/F Unit	—

ASSEMBLY UNITS

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

RLCDP0022CEZZ	J LCD Module Unit, R/G	DB
	(For Europe, U.K., Australia and New Zealand only)	
RLCDP0023CEZZ	J LCD Module Unit, B	DB
	(For Europe, U.K., Australia and New Zealand only)	
RLCDP0016CEZZ	J LCD Module Unit, R/G	DB
	(Not for Europe, U.K., Australia and New Zealand)	
RLCDP0017CEZZ	J LCD Module Unit, B	DB
	(Not for Europe, U.K., Australia and New Zealand)	

DUNTK8898DE05 MAIN UNIT

INTEGRATED CIRCUITS

IC403	VHiM51494L/-1	J M51494L	AK
IC601	VHiTC4S01F/-1	J TC4S01F	AC
IC602	RH-IX2174CEZZ	J MC74HC4538FR	AG
IC603	RH-IX2174CEZZ	J MC74HC4538FR	AG
IC604	VHiTHC221AF-1	J TC74HC221AF	AG
IC605	VHiSNHC00NS-1	J SN74HC00NS	AC
IC606	VHiBA7046F/-1	J BA7046F	AF
IC607	VHiTC4W53F/-1	J TC4W53F	AE
IC608	RH-IX2174CEZZ	J MC74HC4538FR	AG
IC801	RH-IX2508CEN2	J TA8880CN	AZ
IC802	VHiTA8772AN-1	J TA8772AN	AV
IC906	RH-IX2204CEZZ	J PQ12TZ11	AG
IC1201	RH-IX2204CEZZ	J PQ12TZ11	AG
IC1202	VHiPQ09SZ11-1	J PQ09SZ1U	AG
IC1203	VHiPQ05TZ11-1	J PQ05TZ11	AH
IC1204	VHiTA79010S-1	J TA79010S	AE
IC1301	VHiTA7279P/-1	J TA7279P	AP
IC1302	VHiLB1831M/-1	J LB1831M	AN

Ref. No.	Part No.	★	Description	Code
DUNK8898DE05				
MAIN UNIT (Continued)				
IC1303	RH-IX2204CEZZ	J	PQ12TZ11	AG
IC1304	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC1501	VHiEL2310CS-1	J	EL2310CE	AU
IC1504	VHiNJM2060M-1	J	NJM2060M	AE
IC1505	VHiNJM2904M-1	J	NJM2904M	AE
IC1506	VHiR3Y08//-1	J	iR3Y08	AS
IC2001	RH-IX2657CEZZ	J	M37204MC-C77SP	BR
IC2002	VHiPST529CM-1	J	PST529CMT	AE
IC2003	VHiXL93L46F-1	J	XLJ93LC46F	AG
IC2004	VHiM62352GP-1	J	M62352GP	AQ
IC2005	VHiM62352GP-1	J	M62352GP	AQ
IC2006	VHiSNHC00NS-1	J	SN74HC00NS	AC
IC2007	VHiSNHC00NS-1	J	SN74HC00NS	AC
IC2008	VHiNJM2904M-1	J	NJM2904M	AE
IC5001	RH-IX1435CEZZ	J	TC74HC74AF	AE
IC5002	VHiSNHC00NS-1	J	SN74HC00NS	AC

TRANSISTORS

Q410	VS2SC2412KQ-1	J	2SC2412	AA
Q601	VS2SC2412KQ-1	J	2SC2412	AA
Q602	VS2SC2412KQ-1	J	2SC2412	AA
Q603	VS2SC2412KQ-1	J	2SC2412	AA
Q604	VS2SC2412KQ-1	J	2SC2412	AA
Q605	VS2SC2412KQ-1	J	2SC2412	AA
Q606	VS2SC2412KQ-1	J	2SC2412	AA
Q610	VS2SA1037KQ-1	J	2SA1037	AA
Q801	VS2SC2412KQ-1	J	2SC2412	AA
Q804	VS2SC2412KQ-1	J	2SC2412	AA
Q805	VS2SC2412KQ-1	J	2SC2412	AA
Q806	VS2SC2412KQ-1	J	2SC2412	AA
Q807	VS2SC2412KQ-1	J	2SC2412	AA
Q808	VS2SC2412KQ-1	J	2SC2412	AA
Q809	VS2SC2412KQ-1	J	2SC2412	AA
Q810	VS2SC2412KQ-1	J	2SC2412	AA
Q811	VS2SC2412KQ-1	J	2SC2412	AA
Q812	VS2SA1037KQ-1	J	2SA1037	AA
Q813	VS2SA1037KQ-1	J	2SA1037	AA
Q814	VS2SA1037KQ-1	J	2SA1037	AA
Q901	VS2SA1037KQ-1	J	2SA1037	AA
Q1503	VS2SC2412KQ-1	J	2SC2412	AA
Q1504	VS2SC2412KQ-1	J	2SC2412	AA
Q1505	VS2SC2412KQ-1	J	2SC2412	AA
Q1506	VS2SC2412KQ-1	J	2SC2412	AA
Q1507	VS2SC2412KQ-1	J	2SC2412	AA
Q1508	VS2SA1037KQ-1	J	2SA1037	AA
Q1509	VS2SC2412KQ-1	J	2SC2412	AA
Q1510	VS2SA1037KQ-1	J	2SA1037	AA
Q1511	VS2SC2412KQ-1	J	2SC2412	AA
Q1512	VS2SA1037KQ-1	J	2SA1037	AA
Q2001	VS2SC2412KQ-1	J	2SC2412	AA
Q2002	VS2SA1037KQ-1	J	2SA1037	AA
Q2003	VS2SC2412KQ-1	J	2SC2412	AA
Q2004	VS2SC2412KQ-1	J	2SC2412	AA

Ref. No.	Part No.	★	Description	Code
Q2005	VS2SC2412KQ-1	J	2SC2412	AA
Q2006	VS2SC2412KQ-1	J	2SC2412	AA
Q2010	VS2SC3198-Y-1	J	2SC3198	AA
Q2011	VS2SA1037KQ-1	J	2SA1037	AA
Q2012	VS2SC2412KQ-1	J	2SC2412	AA
Q2013	VS2SC2412KQ-1	J	2SC2412	AA
Q2014	VS2SC2412KQ-1	J	2SC2412	AA
Q2015	VS2SC2412KQ-1	J	2SC2412	AA
Q2016	VS2SC2412KQ-1	J	2SC2412	AA
Q2017	VS2SC2412KQ-1	J	2SC2412	AA
Q2021	VSDTC144EK/-1	J	DTC144EK	AB
Q2022	VS2SC2412KQ-1	J	2SC2412	AA
Q2024	VS2SC2412KQ-1	J	2SC2412	AA
Q2025	VS2SC2412KQ-1	J	2SC2412	AA
Q2026	VS2SC2412KQ-1	J	2SC2412	AA
Q2029	VS2SA1037KQ-1	J	2SA1037	AA
Q2030	VS2SA1037KQ-1	J	2SA1037	AA
Q2031	VS2SC2412KQ-1	J	2SC2412	AA
Q2601	VS2SA1037KQ-1	J	2SA1037	AA
Q2602	VS2SC2412KQ-1	J	2SC2412	AA

DIODES

D601	VHDMA152WK/-1	J	Diode MA152WK	AA
D801	RH-EX0497CEZZ	J	Zener Diode	AC
D802	RH-EX0539CEZZ	J	Zener Diode	AB
D803	VHDMA152WK/-1	J	Diode MA152WK	AA
D804	VHDMA152WK/-1	J	Diode MA152WK	AA
D805	VHDMA153///-1	J	Diode MA153	AB
D806	VHDMA152WK/-1	J	Diode MA152WK	AA
D808	RH-EX0294CEZZ	J	Zener Diode 5.1V	AA
D906	VHDMA152WK/-1	J	Diode MA152WK	AA
D907	VHDMA152WA/-1	J	Diode MA152WA	AA
D1201	VHDMA152WK/-1	J	Diode MA152WK	AA
D1202	VHDMA152WK/-1	J	Diode MA152WK	AA
D1203	VHDMA152WK/-1	J	Diode MA152WK	AA
D1204	VHDMA152WK/-1	J	Diode MA152WK	AA
D1301	VHDMA152WK/-1	J	Diode MA152WK	AA
D1302	VHDMA153///-1	J	Diode MA153	AB
D1303	VHDMA152WK/-1	J	Diode MA152WK	AA
D1501	VHDMA152WK/-1	J	Diode MA152WK	AA
D1502	VHDMA153///-1	J	Diode MA153	AB
D1503	VHDMA152WK/-1	J	Diode MA152WK	AA
D1504	VHDMA152WK/-1	J	Diode MA152WK	AA
D1505	VHDMA152WK/-1	J	Diode MA152WK	AA
D1506	VHDMA152WK/-1	J	Diode MA152WK	AA
D1507	VHDMA152WK/-1	J	Diode MA152WK	AA
D1508	VHDMA152WK/-1	J	Diode MA152WK	AA
D1509	VHDMA152WK/-1	J	Diode MA152WK	AA
D1550	VHDMA153///-1	J	Diode MA153	AB
D2001	VHDMA152WK/-1	J	Diode MA152WK	AA
D2002	RH-EX0516CEZZ	J	Zener Diode	AB
D2004	VHDMA152WK/-1	J	Diode MA152WK	AA
D2005	RH-EX0227CEZZ	J	Zener Diode 5.1V	AB
D2006	VHDMA152WK/-1	J	Diode MA152WK	AA
D2007	RH-EX0226CEZZ	J	Zener Diode	AB
D2008	VHDMA152WK/-1	J	Diode MA152WK	AA

Ref. No.	Part No.	★	Description	Code
DUNTK8898DE05				
MAIN UNIT (Continued)				
D2009	VHDMA152WK/-1	J	Diode MA152WK	AA
D2010	RH-EX0227CEZZ	J	Zener Diode 5.1V	AB
D2011	VHDMA152WK/-1	J	Diode MA152WK	AA
D2012	RH-EX0227CEZZ	J	Zener Diode 5.1V	AB
D2013	RH-EX0226CEZZ	J	Zener Diode	AB
D2016	VHDMA152WK/-1	J	Diode MA152WK	AA
D2017	VHDMA152WK/-1	J	Diode MA152WK	AA
D2018	VHDMA152WK/-1	J	Diode MA152WK	AA
D2019	VHDMA152WK/-1	J	Diode MA152WK	AA
D2020	VHDMA153///-1	J	Diode MA153	AB
D2021	VHDMA153///-1	J	Diode MA153	AB
D2022	VHDMA153///-1	J	Diode MA153	AB
D2023	VHDMA153///-1	J	Diode MA153	AB
D2024	VHDMA152WK/-1	J	Diode MA152WK	AA
D2025	VHDMA152WK/-1	J	Diode MA152WK	AA
D2026	VHDMA152WK/-1	J	Diode MA152WK	AA
D2027	VHDMA152WK/-1	J	Diode MA152WK	AA
D2028	VHDMA152WK/-1	J	Diode MA152WK	AA
D2029	VHDMA152WK/-1	J	Diode MA152WK	AA
D2030	VHDMA152WK/-1	J	Diode MA152WK	AA
D2032	VHDMA152WK/-1	J	Diode MA152WK	AA
D2033	VHDMA152WK/-1	J	Diode MA152WK	AA
D2036	VHDMA152WK/-1	J	Diode MA152WK	AA
D2037	VHDMA153///-1	J	Diode MA153	AB
D2038	VHDMA153///-1	J	Diode MA153	AB
D2039	VHDMA153///-1	J	Diode MA153	AB
D2040	VHDMA153///-1	J	Diode MA153	AB
D2042	RH-EX0251CEZZ	J	Zener Diode	AB
D2043	RH-EX0251CEZZ	J	Zener Diode	AB
D2044	RH-EX0251CEZZ	J	Zener Diode	AB
D2045	RH-EX0251CEZZ	J	Zener Diode	AB
D2046	RH-EX0251CEZZ	J	Zener Diode	AB
D2047	RH-EX0251CEZZ	J	Zener Diode	AB
D2048	RH-EX0251CEZZ	J	Zener Diode	AB
D2049	VHDMA152WK/-1	J	Diode MA152WK	AA
D2050	VHDMA152WA/-1	J	Diode MA152WA	AA
D2051	VHDMA152WK/-1	J	Diode MA152WK	AA
D2052	VHDMA152WA/-1	J	Diode MA152WA	AA
D2053	VHDMA152WK/-1	J	Diode MA152WK	AA
D2072	VHDMA152WK/-1	J	Diode MA152WK	AA
D5001	VHDMA152WK/-1	J	Diode MA152WK	AA

PACKAGED CIRCUITS

X801	RCRSB0002CEZZ	J	Crystal 4.43MHz	AM
X802	RCRSB0069CEZZ	J	Crystal 3.58MHz	AG

COIL AND TRANSFORMERS

CF801	RFILA0034CEZZ	J	Ceramic Filter	AD
CF2001	RFILC0112GEZZ	J	Ceramic Filter	AC
DL802	RCILZ0826CEZZ	J	Delay Line Coil	AH
L801	VP-MK120K0000	J	Peaking 12μH	AB
L803	VP-MK270K0000	J	Peaking 27μH	AB
L804	VP-MK220K0000	J	Peaking 22μH	AB

Ref. No.	Part No.	★	Description	Code
L1201	RCILP0168TAZZ	J	Coil	AF
L1202	RCILP0168TAZZ	J	Coil	AF
L1203	RCILP0168TAZZ	J	Coil	AF
L1204	RCILP0168TAZZ	J	Coil	AF
L1501	VP-MK5R6K0000	J	Peaking 5.6μH	AB
L1504	VP-MK8R2K0000	J	Peaking 8.2μH	AB
T2001	RCILB0024CEZZ	J	Oscillation Coil	AD
			Sign Display Position Adj.	

CONTROLS

R1516	RVR-M4272CEZZ	J	10k(B) Gamma Correct	AC
R1517	RVR-M4272CEZZ	J	10k(B) Gamma Correct	AC
R1539	RVR-M4277CEZZ	J	68k(B) AGC	AD

CAPACITORS

C429	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C430	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C431	VCCCTV1HH331J	J	330p 50V Ceramic	AA
C432	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C433	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C434	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C437	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C438	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C461	VCCCTV1HH151J	J	150p 50V Ceramic	AA
C601	VCKYTQ1CB105K	J	1 16V Ceramic	AC
C602	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C605	VCCCTV1HH221J	J	220p 50V Ceramic	AA
C606	VCCCTV1HH821J	J	820p 50V Ceramic	AB
C607	VCQYTA1HM183J	J	0.018 50V Mylar	AB
C608	VCCCTV1HH470J	J	47p 50V Ceramic	AA
C609	VCCCTV1HH102J	J	1000p 50V Ceramic	AA
C610	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C611	VCCCTV1HH102J	J	1000p 50V Ceramic	AA
C612	VCCCTV1HH102J	J	1000p 50V Ceramic	AA
C613	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C614	VCCCTV1HH561J	J	560p 50V Ceramic	AA
C615	VCCCTV1HH102J	J	1000p 50V Ceramic	AA
C617	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C618	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C619	VCE9GA1CW226M	J	22 16V Elect. (N.P)	AB
C620	VCKYTV1HB223K	J	0.022 50V Ceramic	AB
C621	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C622	VCKYTQ1CB105K	J	1 16V Ceramic	AC
C623	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C624	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C625	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C627	VCEAGA1CW107M	J	100 16V Electrolytic	AB
C629	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C630	VCCCTV1HH470J	J	47p 50V Ceramic	AA
C631	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C804	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C805	VCEAGA1CW477M	J	470 16V Electrolytic	AC
C806	VCEAGA1HW474M	J	0.47 50V Electrolytic	AA
C807	VCEAGA1HW474M	J	0.47 50V Electrolytic	AA
C808	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C809	VCKYTV1HB103K	J	0.01 50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTK8898DE05									
MAIN UNIT (Continued)									
C810	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C867	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C811	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C868	VCCCTV1HH470J	J 47p	50V Ceramic	AA
C812	VCQYTA1HM104J	J 0.1	50V Mylar	AA	C869	VCCCTV1HH270J	J 27p	50V Ceramic	AA
C813	VCEAGA1CW106M	J 10	16V Electrolytic	AA	C870	VCEAGA1HW105M	J 1	50V Electrolytic	AC
C814	VCE9GA1HW474M	J 0.47	50V Elect. (N.P)	AB	C871	VCEAGA1HW105M	J 1	50V Electrolytic	AC
C815	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C872	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C816	VCEAGA1CW107M	J 100	16V Electrolytic	AB	C873	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C817	VCEAGA1HW225M	J 2.2	50V Electrolytic	AB	C874	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C818	VCEAGA1HW225M	J 2.2	50V Electrolytic	AB	C876	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C819	VCEAGA1HW105M	J 1	50V Electrolytic	AC	C878	VCKYTQ1HF224Z	J 0.22	50V Ceramic	AB
C820	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C880	VCEAGA1HW105M	J 1	50V Electrolytic	AC
C821	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C882	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C822	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C883	VCCCTV1HH220J	J 22p	50V Ceramic	AA
C823	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C884	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C824	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C887	VCEAGA1CW477M	J 470	16V Electrolytic	AC
C825	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C889	VCEAGA1CW226M	J 22	16V Electrolytic	AB
C826	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C890	VCCCTV1HH470J	J 47p	50V Ceramic	AA
C827	VCEAGA1HW105M	J 1	50V Electrolytic	AC	C891	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C828	VCQYTA1HM153J	J 0.015	50V Mylar	AA	C892	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C829	VCEAGA1HW105M	J 1	50V Electrolytic	AC	C914	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C831	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C916	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C832	VCEAGA1CW477M	J 470	16V Electrolytic	AC	C1201	VCEAGA1EW107M	J 100	25V Electrolytic	AD
C833	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C1202	VCEAGA1EW107M	J 100	25V Electrolytic	AD
C834	VCQYTA1HM103J	J 0.01	50V Mylar	AA	C1203	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C835	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C1204	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C836	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C1205	VCEAGA1EW227M	J 220	25V Electrolytic	AC
C837	VCEAGA1CW477M	J 470	16V Electrolytic	AC	C1206	VCEAGA1EW227M	J 220	25V Electrolytic	AC
C838	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C1207	VCEAGA1EW107M	J 100	25V Electrolytic	AD
C839	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C1208	VCEAGA1EW107M	J 100	25V Electrolytic	AD
C840	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C1209	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C841	VCEAGA1CW476M	J 47	16V Electrolytic	AB	C1212	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C842	VCQYTA1HM103J	J 0.01	50V Mylar	AA	C1213	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C843	VCEAGA1HW225M	J 2.2	50V Electrolytic	AB	C1301	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C844	VCEAGA1HW105M	J 1	50V Electrolytic	AC	C1302	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C845	VCCCTV1HH820J	J 82p	50V Ceramic	AA	C1303	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C846	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C1304	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C847	VCCCTV1HH820J	J 82p	50V Ceramic	AA	C1305	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C848	VCQYTA1HM223J	J 0.022	50V Mylar	AA	C1306	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C849	VCCCTV1HH470J	J 47p	50V Ceramic	AA	C1307	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C850	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C1308	VCEAGA1EW107M	J 100	25V Electrolytic	AD
C852	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C1309	VCEAGA1CW477M	J 470	16V Electrolytic	AC
C853	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C1501	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C854	VCEAGA1CW477M	J 470	16V Electrolytic	AC	C1502	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C855	VCEAGA1HW475M	J 4.7	50V Electrolytic	AB	C1504	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C856	VCQYTA1HM223J	J 0.022	50V Mylar	AA	C1505	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C857	VCCCTV1HH120J	J 12p	50V Ceramic	AA	C1506	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C858	VCCCTV1HH100D	J 10p	50V Ceramic	AA	C1507	VCEAGA1CW476M	J 47	16V Electrolytic	AB
C859	VCQYTA1HM223J	J 0.022	50V Mylar	AA	C1508	VCEAGA1CW476M	J 47	16V Electrolytic	AB
C861	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C1510	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C863	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C1511	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C864	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C1512	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C865	VCEAGA1CW107M	J 100	16V Electrolytic	AB	C1513	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C866	VCQYTA1HM104J	J 0.1	50V Mylar	AA	C1514	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
					C1515	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
					C1516	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
					C1517	VCKYTV1HB103K	J 0.01	50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTK8898DE05									
MAIN UNIT (Continued)									
C1518	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C2015	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1519	VCCCTV1HH151J	J 150p	50V Ceramic	AA	C2017	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1520	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2018	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1521	VCKYTV1HB682K	J 6800p	50V Ceramic	AA	C2019	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1522	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2020	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1523	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2021	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1524	VCEAGA1EW107M	J 100	25V Electrolytic	AD	C2022	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1526	VCEAGA1CW106M	J 10	16V Electrolytic	AA	C2023	VCKYTV1HB102K	J 1000p	50V Ceramic	AA
C1527	VCEAGA1HW225M	J 2.2	50V Electrolytic	AB	C2024	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1528	VCEAGA1HW225M	J 2.2	50V Electrolytic	AB	C2025	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1530	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2026	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1532	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2027	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1533	VCE9GA1HW105M	J 1	50V Elect. (N.P)	AB	C2028	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1541	VCCCTV1HH101J	J 100p	50V Ceramic	AA	C2029	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1542	VCEAGA1CW107M	J 100	16V Electrolytic	AB	C2030	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1543	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C2034	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C1544	VCQYTA1HM104J	J 0.1	50V Mylar	AA	C2035	VCEAGA1CW477M	J 470	16V Electrolytic	AC
C1545	VCQYTA1HM104J	J 0.1	50V Mylar	AA	C2036	VCCCTV1HH820J	J 82p	50V Ceramic	AA
C1546	VCQYTA1HM104J	J 0.1	50V Mylar	AA	C2037	VCCCTV1HH820J	J 82p	50V Ceramic	AA
C1547	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2038	VCCCTV1HH820J	J 82p	50V Ceramic	AA
C1548	VCCCTV1HH102J	J 1000p	50V Ceramic	AA	C2039	VCCCTV1HH820J	J 82p	50V Ceramic	AA
C1549	VCKYTV1HB682K	J 6800p	50V Ceramic	AA	C2040	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1550	VCKYTV1HB682K	J 6800p	50V Ceramic	AA	C2041	VCEAGA1CW476M	J 47	16V Electrolytic	AB
C1551	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2044	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1552	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2045	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1553	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2046	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1554	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2047	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1555	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2048	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1556	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2049	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1557	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2050	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1558	VCEAGA1CW106M	J 10	16V Electrolytic	AA	C2051	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C1559	VCEAGA1CW106M	J 10	16V Electrolytic	AA	C2052	VCEAGA1CW477M	J 470	16V Electrolytic	AC
C1560	VCEAGA1CW476M	J 47	16V Electrolytic	AB	C2053	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C1561	VCEAGA1CW476M	J 47	16V Electrolytic	AB	C2054	VCCCTV1HH101J	J 100p	50V Ceramic	AA
C1562	VCCCTV1HH561J	J 560p	50V Ceramic	AA	C2056	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1563	VCCCTV1HH151J	J 150p	50V Ceramic	AA	C2058	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1564	VCCCTV1HH151J	J 150p	50V Ceramic	AA	C2059	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1565	VCCCTV1HH271J	J 270p	50V Ceramic	AA	C2060	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1566	VCCCTV1HH271J	J 270p	50V Ceramic	AA	C2061	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C1652	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2062	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C2001	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C2063	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C2002	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2064	VCCCTV1HH151J	J 150p	50V Ceramic	AA
C2003	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2065	VCEAGA0JW477M	J 470	6.3V Electrolytic	AB
C2004	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2068	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C2006	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB	C2070	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C2007	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2601	VCCCTV1HH470J	J 47p	50V Ceramic	AA
C2008	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C2602	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C2009	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C5001	VCEAGA1CW476M	J 47	16V Electrolytic	AB
C2010	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C5002	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C2011	VCKYTV1HB103K	J 0.01	50V Ceramic	AA	C5003	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C2012	VCKYTV1HB102K	J 1000p	50V Ceramic	AA	RESISTORS				
C2013	VCKYTV1HB102K	J 1000p	50V Ceramic	AA	R450	VRS-TV1JD562J	J 5.6k	1/10W Metal Oxide	AA
C2014	VCKYTV1HB102K	J 1000p	50V Ceramic	AA	R451	VRS-TV1JD821J	J 820	1/10W Metal Oxide	AA
					R455	VRS-TV1JD332J	J 3.3k	1/10W Metal Oxide	AA
					R456	VRS-TV1JD822J	J 8.2k	1/10W Metal Oxide	AA

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MAIN UNIT (Continued)

R457	VRS-TV1JD822J	J	8.2k 1/10W	Metal Oxide	AA
R458	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R461	VRS-TV1JD000J	J	0 1/10W	Metal Oxide	AA
R462	VRS-TV1JD182J	J	1.8k 1/10W	Metal Oxide	AA
R491	VRS-TV1JD153J	J	15k 1/10W	Metal Oxide	AA
R493	VRS-TV1JD000J	J	0 1/10W	Metal Oxide	AA
R601	VRS-TV1JD561J	J	560 1/10W	Metal Oxide	AA
R602	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R603	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide	AA
R604	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R605	VRS-TV1JD222J	J	2.2k 1/10W	Metal Oxide	AA
R606	VRS-TV1JD222J	J	2.2k 1/10W	Metal Oxide	AA
R612	VRS-TV1JD122J	J	1.2k 1/10W	Metal Oxide	AA
R613	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R615	VRS-TV1JD391J	J	390 1/10W	Metal Oxide	AA
R616	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R618	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R619	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R622	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R623	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R624	VRS-TV1JD473J	J	47k 1/10W	Metal Oxide	AA
R625	VRN-TV1JD473D	J	47k 1/10W	Metal Film	AB
R626	VRS-TV1JD123J	J	12k 1/10W	Metal Oxide	AA
R627	VRS-TV1JD123J	J	12k 1/10W	Metal Oxide	AA
R628	VRN-TV1JD103D	J	10k 1/10W	Metal Film	AB
R629	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R630	VRN-TV1JD682D	J	6.8k 1/10W	Metal Film	AA
R631	VRN-TV1JD682D	J	6.8k 1/10W	Metal Film	AA
R632	VRN-TV1JD103D	J	10k 1/10W	Metal Film	AB
R633	VRN-TV1JD183D	J	18k 1/10W	Metal Film	AA
R634	VRN-TV1JD103D	J	10k 1/10W	Metal Film	AB
R638	VRN-TV1JD223D	J	22k 1/10W	Metal Film	AB
R639	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R640	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R641	VRS-TV1JD562J	J	5.6k 1/10W	Metal Oxide	AA
R642	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide	AA
R643	VRS-TV1JD474J	J	470k 1/10W	Metal Oxide	AA
R644	VRS-TV1JD331J	J	330 1/10W	Metal Oxide	AA
R653	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R654	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R803	VRS-TV1JD225J	J	2.2M 1/10W	Metal Oxide	AA
R806	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide	AA
R807	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R808	VRS-TX2HF121J	J	120 1/2W	Metal Oxide	AB
R809	VRS-TV1JD395J	J	3.9M 1/10W	Metal Oxide	AA
R810	VRS-TV1JD472J	J	4.7k 1/10W	Metal Oxide	AA
R811	VRS-TV1JD331J	J	330 1/10W	Metal Oxide	AA
R812	VRS-TX2HF101J	J	100 1/2W	Metal Oxide	AA
R813	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R814	VRS-TV1JD822J	J	8.2k 1/10W	Metal Oxide	AA
R815	VRS-TV1JD222J	J	2.2k 1/10W	Metal Oxide	AA
R816	VRS-TX2HF270J	J	27 1/2W	Metal Oxide	AB
R817	VRS-TX2HF270J	J	27 1/2W	Metal Oxide	AB

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R818	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide	AA
R819	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide	AA
R820	VRS-TV1JD824J	J	820k 1/10W	Metal Oxide	AA
R821	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R822	VRS-TV1JD392J	J	3.9k 1/10W	Metal Oxide	AA
R823	VRS-TV1JD682J	J	6.8k 1/10W	Metal Oxide	AA
R827	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide	AA
R828	VRS-TV1JD332J	J	3.3k 1/10W	Metal Oxide	AA
R829	VRS-TV1JD223J	J	22k 1/10W	Metal Oxide	AA
R830	VRS-TV1JD394J	J	390k 1/10W	Metal Oxide	AA
R831	VRS-TV1JD223J	J	22k 1/10W	Metal Oxide	AA
R832	VRS-TV1JD223J	J	22k 1/10W	Metal Oxide	AA
R833	VRS-TV1JD272J	J	2.7k 1/10W	Metal Oxide	AA
R834	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R835	VRS-TV1JD221J	J	220 1/10W	Metal Oxide	AA
R836	VRS-TV1JD182J	J	1.8k 1/10W	Metal Oxide	AA
R837	VRS-TV1JD473J	J	47k 1/10W	Metal Oxide	AA
R838	VRS-TV1JD473J	J	47k 1/10W	Metal Oxide	AA
R839	VRS-TV1JD222J	J	2.2k 1/10W	Metal Oxide	AA
R841	VRS-TV1JD122J	J	1.2k 1/10W	Metal Oxide	AA
R842	VRS-TV1JD821J	J	820 1/10W	Metal Oxide	AA
R843	VRS-TV1JD474J	J	470k 1/10W	Metal Oxide	AA
R844	VRS-TV1JD474J	J	470k 1/10W	Metal Oxide	AA
R845	VRS-TV1JD473J	J	47k 1/10W	Metal Oxide	AA
R846	VRS-TV1JD473J	J	47k 1/10W	Metal Oxide	AA
R847	VRS-TV1JD392J	J	3.9k 1/10W	Metal Oxide	AA
R848	VRS-TV1JD332J	J	3.3k 1/10W	Metal Oxide	AA
R849	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide	AA
R850	VRS-TV1JD224J	J	220k 1/10W	Metal Oxide	AA
R851	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R852	VRS-TV1JD223J	J	22k 1/10W	Metal Oxide	AA
R854	VRS-TV1JD394J	J	390k 1/10W	Metal Oxide	AA
R855	VRS-TV1JD152J	J	1.5k 1/10W	Metal Oxide	AA
R856	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R857	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R858	VRS-TV1JD222J	J	2.2k 1/10W	Metal Oxide	AA
R859	VRS-TV1JD822J	J	8.2k 1/10W	Metal Oxide	AA
R860	VRS-TV1JD392J	J	3.9k 1/10W	Metal Oxide	AA
R861	VRS-TV1JD183J	J	18k 1/10W	Metal Oxide	AA
R862	VRS-TV1JD222J	J	2.2k 1/10W	Metal Oxide	AA
R863	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide	AA
R864	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R866	VRS-TV1JD122J	J	1.2k 1/10W	Metal Oxide	AA
R868	VRS-TV1JD271J	J	270 1/10W	Metal Oxide	AA
R870	VRS-TV1JD681J	J	680 1/10W	Metal Oxide	AA
R872	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R874	VRS-TV1JD223J	J	22k 1/10W	Metal Oxide	AA
R875	VRS-TV1JD223J	J	22k 1/10W	Metal Oxide	AA
R876	VRS-TV1JD223J	J	22k 1/10W	Metal Oxide	AA
R880	VRS-TV1JD152J	J	1.5k 1/10W	Metal Oxide	AA
R881	VRS-TV1JD152J	J	1.5k 1/10W	Metal Oxide	AA
R882	VRS-TV1JD152J	J	1.5k 1/10W	Metal Oxide	AA
R883	VRS-TV1JD152J	J	1.5k 1/10W	Metal Oxide	AA
R884	VRS-TV1JD152J	J	1.5k 1/10W	Metal Oxide	AA
R885	VRS-TV1JD152J	J	1.5k 1/10W	Metal Oxide	AA
R886	VRS-TV1JD152J	J	1.5k 1/10W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
DUNTK8898DE05				
MAIN UNIT (Continued)				
R889	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R890	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R897	VRS-TV1JD185J	J	1.8M 1/10W Metal Oxide	AA
R908	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R909	VRS-TX2HF6R8J	J	6.8 1/2W Metal Oxide	AA
R910	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R912	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R915	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R917	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R1201	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1202	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1203	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1204	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R1205	VRG-RF2HB2R2J	J	2.2 1/2W Fuse Resistor	AB
R1209	VRS-SV3AB330J	J	33 1W Metal Oxide	AC
R1210	VRS-SV3AB270J	J	27 1W Metal Oxide	AC
R1301	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1302	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1303	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R1501	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1502	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1503	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1504	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1506	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1507	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1508	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1509	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1510	VRN-TV1JD562D	J	5.6k 1/10W Metal Film	AA
R1511	VRN-TV1JD562D	J	5.6k 1/10W Metal Film	AA
R1512	VRS-TV1JD560J	J	56 1/10W Metal Oxide	AA
R1513	VRS-TV1JD680J	J	68 1/10W Metal Oxide	AA
R1514	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R1515	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA
R1516	See Controls			
R1517	See Controls			
R1518	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1520	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R1521	VRS-TV1JD154J	J	150k 1/10W Metal Oxide	AA
R1522	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1523	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1524	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1525	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1526	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R1527	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R1528	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1530	VRS-TW2ED5R6J	J	5.6 1/4W Metal Oxide	AA
R1531	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1533	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1535	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1536	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1537	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1538	VRS-TV1JD393J	J	39k 1/10W Metal Oxide	AA
R1539	See Controls			

Ref. No.	Part No.	★	Description	Code
R1540	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R1541	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1542	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R1543	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1544	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA
R1545	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1546	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1547	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1548	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA
R1550	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1551	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R1552	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1553	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1554	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1555	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1556	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1557	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R1558	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1559	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1560	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1561	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1562	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1563	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1564	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA
R1565	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA
R1566	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1567	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1568	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1569	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1570	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1571	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1572	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1573	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1574	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R1575	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1576	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1577	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1578	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R1579	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1580	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R1581	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1582	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1583	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1584	VRN-TV1JD182D	J	1.8k 1/10W Metal Film	AA
R1585	VRN-TV1JD682D	J	6.8k 1/10W Metal Film	AA
R1586	VRN-TV1JD182D	J	1.8k 1/10W Metal Film	AA
R1587	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1588	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1589	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1590	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1591	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1592	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1593	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1594	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1595	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1596	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNK8898DE05					R2051	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
MAIN UNIT (Continued)					R2054	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R1597	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA	R2056	VRS-TV1JD392J	J 3.9k	1/10W Metal Oxide	AA
R1598	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA	R2057	VRN-TV1JD272D	J 2.7k	1/10W Metal Film	AA
R1924	VRS-TV1JD821J	J 820	1/10W Metal Oxide	AA	R2058	VRS-CB1JF102J	J 1k	1/16W Metal Oxide	AA
R1925	VRS-TV1JD821J	J 820	1/10W Metal Oxide	AA	R2059	VRS-CB1JF102J	J 1k	1/16W Metal Oxide	AA
R1926	VRS-TV1JD821J	J 820	1/10W Metal Oxide	AA	R2060	VRS-CA1JF102J	J 1k	1/16W Metal Oxide	AA
R2001	VRS-TX2HF5R6J	J 5.6	1/2W Metal Oxide	AA	R2061	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2002	VRN-TV1JD273D	J 27k	1/10W Metal Film	AB	R2062	VRS-CB1JF102J	J 1k	1/16W Metal Oxide	AA
R2003	VRN-TV1JD472D	J 4.7k	1/10W Metal Film	AA	R2063	VRS-CB1JF102J	J 1k	1/16W Metal Oxide	AA
R2004	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA	R2064	VRS-CA1JF102J	J 1k	1/16W Metal Oxide	AA
R2005	VRS-TV1JD472J	J 4.7k	1/10W Metal Oxide	AA	R2065	VRS-CA1JF102J	J 1k	1/16W Metal Oxide	AA
R2006	VRS-CB1JF223J	J 22k	1/16W Metal Oxide	AA	R2069	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R2007	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2070	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R2008	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2071	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R2009	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA	R2074	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2010	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA	R2075	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2011	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA	R2076	VRS-TV1JD824J	J 820k	1/10W Metal Oxide	AA
R2012	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2077	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2013	VRS-TV1JD392J	J 3.9k	1/10W Metal Oxide	AA	R2078	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2014	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2079	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2015	VRS-TV1JD123J	J 12k	1/10W Metal Oxide	AA	R2080	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2016	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA	R2081	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2017	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA	R2082	VRS-TV1JD221J	J 220	1/10W Metal Oxide	AA
R2018	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA	R2083	VRS-TV1JD821J	J 820	1/10W Metal Oxide	AA
R2019	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2084	VRS-TV1JD821J	J 820	1/10W Metal Oxide	AA
R2020	VRS-CB1JF102J	J 1k	1/16W Metal Oxide	AA	R2085	VRS-TV1JD221J	J 220	1/10W Metal Oxide	AA
R2021	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA	R2086	VRS-TV1JD821J	J 820	1/10W Metal Oxide	AA
R2022	VRS-TV1JD222J	J 2.2k	1/10W Metal Oxide	AA	R2087	VRS-TV1JD221J	J 220	1/10W Metal Oxide	AA
R2023	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA	R2088	VRS-TV1JD221J	J 220	1/10W Metal Oxide	AA
R2024	VRS-TV1JD105J	J 1M	1/10W Metal Oxide	AA	R2089	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2025	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2090	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R2026	VRS-CA1JF223J	J 22k	1/16W Metal Oxide	AA	R2091	VRS-CA1JF101J	J 100	1/16W Metal Oxide	AA
R2027	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2092	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R2028	VRS-CB1JF102J	J 1k	1/16W Metal Oxide	AA	R2093	VRS-TV1JD122J	J 1.2k	1/10W Metal Oxide	AA
R2029	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA	R2094	VRS-TX2HF181J	J 180	1/2W Metal Oxide	AA
R2030	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA	R2095	VRS-TX2HF181J	J 180	1/2W Metal Oxide	AA
R2031	VRS-CB1JF102J	J 1k	1/16W Metal Oxide	AA	R2096	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2032	VRS-CB1JF223J	J 22k	1/16W Metal Oxide	AA	R2097	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2033	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2098	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R2034	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2099	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2035	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA	R2101	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2036	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2102	VRS-TV1JD563J	J 56k	1/10W Metal Oxide	AA
R2037	VRS-TV1JD472J	J 4.7k	1/10W Metal Oxide	AA	R2103	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2038	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2104	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2039	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2105	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2040	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2106	VRS-TV1JD473J	J 47k	1/10W Metal Oxide	AA
R2041	VRS-TV1JD104J	J 100k	1/10W Metal Oxide	AA	R2108	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2044	VRS-TV1JD472J	J 4.7k	1/10W Metal Oxide	AA	R2109	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2045	VRS-TV1JD153J	J 15k	1/10W Metal Oxide	AA	R2110	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2046	VRS-TV1JD153J	J 15k	1/10W Metal Oxide	AA	R2111	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2047	VRS-TV1JD683J	J 68k	1/10W Metal Oxide	AA	R2112	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2048	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2113	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2049	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2114	VRS-TV1JD000J	J 0	1/10W Metal Oxide	AA
R2050	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA	R2116	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
					R2117	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
DUNTK8898DE05				
MAIN UNIT (Continued)				
R2119	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2120	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2121	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2123	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2125	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2127	VRS-TV1JD000J	J 0	1/10W Metal Oxide	AA
R2177	VRS-TV1JD473J	J 47k	1/10W Metal Oxide	AA
R2178	VRS-TV1JD473J	J 47k	1/10W Metal Oxide	AA
R2179	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2180	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2181	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2182	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2183	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2184	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2185	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2186	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2187	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2188	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2189	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2190	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2191	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2192	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2193	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2194	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2195	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2196	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2197	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2198	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2201	VRN-TV1JD472D	J 4.7k	1/10W Metal Film	AA
R2202	VRN-TV1JD103D	J 10k	1/10W Metal Film	AB
R2203	VRN-TV1JD562D	J 5.6k	1/10W Metal Film	AA
R2204	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2205	VRS-TV1JD224J	J 220k	1/10W Metal Oxide	AA
R2209	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2211	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2212	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2601	VRS-TV1JD682J	J 6.8k	1/10W Metal Oxide	AA
R2602	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2603	VRS-TV1JD682J	J 6.8k	1/10W Metal Oxide	AA
R2604	VRS-TV1JD472J	J 4.7k	1/10W Metal Oxide	AA
R2605	VRS-TV1JD182J	J 1.8k	1/10W Metal Oxide	AA
R5001	VRS-TV1JD561J	J 560	1/10W Metal Oxide	AA
R5002	VRS-TV1JD561J	J 560	1/10W Metal Oxide	AA
R5003	VRS-TV1JD561J	J 560	1/10W Metal Oxide	AA
R5004	VRS-TV1JD561J	J 560	1/10W Metal Oxide	AA
R5005	VRS-TV1JD561J	J 560	1/10W Metal Oxide	AA

SWITCHES

S801	QSW-S0198CEZZ	J AGC	AF
S2001	QSW-K0076CEZZ	J ADJ. IN	AB
S2002	QSW-K0076CEZZ	J CALL	AB

Ref. No.	Part No.	★	Description	Code
MISCELLANEOUS PARTS				
FB2001	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB2002	RBLN-0060CEZZ	J	Ferrite Bead	AC
J901	QJAKE0008TAZZ	J	Jack, DC12V Output	AE
J2001	QJAKJ0044CEZZ	J	Jack, Wired R/C	AF
P401	QPLGN1178GEZZ	J	Plug 11-pin (GH)	AC
P601	QPLGZ1068GEZZ	J	Plug 10-pin (TB)	AD
P801	QPLGZ1268GEZZ	J	Plug 12-pin (TA)	AD
P802	QPLGZ2228CEZZ	J	Plug 22-pin (CA)	AE
P1201	QPLGN0878GEZZ	J	Plug 8-pin (EA)	AC
P1202	QPLGN0378GEZZ	J	Plug 3-pin (D)	AB
P1203	QPLGN0478GEZZ	J	Plug 4-pin (EF)	AB
P1501	QPLGZ2628CEZZ	J	Plug 26-pin (MA)	AE
P1502	QPLGZ3028CEZZ	J	Plug 30-pin (MB)	AF
P2002	QPLGN1080GEZZ	J	Plug 10-pin (PA)	AC
P2004	QPLGN1180GEZZ	J	Plug 11-pin (CM)	AC
P2005	QPLGN0278GEZZ	J	Plug 2-pin (O)	AA
P2006	QPLGN0280GEZZ	J	Plug 2-pin TP1	AB
P2007	QPLGN0578GEZZ	J	Plug 5-pin TP2	AB
SC801	QSOCZ0616CEZZ	J	Socket 6-pin	AD
SC1501	QSOCZ0519CEZZ	J	Socket 5-pin	AC
SC2001	QSOCN1038TAZZ	J	Socket 10-pin (KE)	AD
SC2002	QSOCZ6434GEZZ	J	Socket 64-pin, IC2001	AG
TP801	QLUGP0103GEFW	J	Lug, Test Point	AA
TP802	QLUGP0103GEFW	J	Lug, Test Point	AA
TP808	QLUGP0103GEFW	J	Lug, Test Point	AA
TP809	QLUGP0103GEFW	J	Lug, Test Point	AA
TP1504	QLUGP0103GEFW	J	Lug, Test Point	AA
TP1505	QLUGP0103GEFW	J	Lug, Test Point	AA
	LHLDZ1768CEZZ	J	Jack Holder	AC
	QCNW-4454CEZZ	J	Connecting Cord (GH) (For Europe, U.K., Australia and New Zealand only)	AN
	QCNW-4370CEZZ	J	Connecting Cord (GH) (Not for Europe, U.K., Australia and New Zealand)	AP

Ref. No.	Part No.	★	Description	Code
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DUNK8900DE05 CONTROL UNIT

INTEGRATED CIRCUITS

IC1601	RH-IX2449CEZZ	J	LZ93BE6	AP
IC1602	RH-IX2190CEZZ	J	SN74HC157NS	AE
IC1603	VHITHC4040AF1	J	TC74HC4040AF	AH
IC1604	VHITHC20F/-1	J	TC74HC20AF	AD
IC1605	VHITC7S02F/-1	J	TC7S02F	AC
IC1606	VHITHC74F/-1	J	TC74HC74F	AE
IC1607	VHITC7S08F/-1	J	TC7S08F	AC
IC1608	VHIMC14053F-1	J	MC14053BFR1	AD
IC1609	VHINJM2107F-1	J	NJM2107F	AE
IC1610	VHITC4W53F/-1	J	TC4W53F	AE
IC1611	RH-IX1453CEZZ	J	TC74HC164AF	AF
IC1612	VHISC7S04F/-1	J	SC7S04F	AC
IC1613	VHITC7S04F/-1	J	TC7S04F	AC
IC1614	VHINJM2904M-1	J	NJM2904M	AE
IC1615	VHINJ2233BM-1	J	NJM2233BM	AE
IC1617	VHIPQ05TZ11-1	J	PQ05TZ11	AH
IC1618	VHISNHC00NS-1	J	SN74HC00NS	AC
IC1801	VHIMC14052F-1	J	MC14052BFR1	AE
IC1802	VHIMC14052F-1	J	MC14052BFR1	AE
IC1803	VHIMC14052F-1	J	MC14052BFR1	AE
IC1804	VHITC4S01F/-1	J	TC4S01F	AC
IC1805	VHINJM3415M-1	J	NJM3415M	AT
IC1806	VHINJM3415M-1	J	NJM3415M	AT
IC1807	RH-IX1973CEZZ	J	SN74HC541NS	AG

TRANSISTORS

Q1605	VS2SC2412KQ-1	J	2SC2412	AA
Q1606	VS2SC2412KQ-1	J	2SC2412	AA
Q1607	VS2SC2412KQ-1	J	2SC2412	AA
Q1608	VSDTC144EK/-1	J	DTC144EK	AB
Q1609	VSDTC144EK/-1	J	DTC144EK	AB
Q1610	VS2SC2735//1E	J	2SC2735	AC
Q1611	VS2SC2412KQ-1	J	2SC2412	AA
Q1612	VS2SC2412KQ-1	J	2SC2412	AA
Q1614	VS2SC2412KQ-1	J	2SC2412	AA
Q1615	VS2SC2412KQ-1	J	2SC2412	AA
Q1616	VS2SC2412KQ-1	J	2SC2412	AA
Q1801	VSiMX2////-1	J	iMX2	AB
Q1802	VSiMT2////-1	J	iMT2	AB
Q1803	VSiMX2////-1	J	iMX2	AB
Q1804	VSiMT2////-1	J	iMT2	AB
Q1805	VSiMX2////-1	J	iMX2	AB
Q1806	VSiMT2////-1	J	iMT2	AB
Q1807	VSiMX2////-1	J	iMX2	AB
Q1808	VSiMT2////-1	J	iMT2	AB
Q1809	VSiMX2////-1	J	iMX2	AB
Q1810	VSiMT2////-1	J	iMT2	AB
Q1811	VSiMX2////-1	J	iMX2	AB
Q1812	VSiMT2////-1	J	iMT2	AB
Q1813	VSDTC144EK/-1	J	DTC144EK	AB
Q1814	VSDTC144EK/-1	J	DTC144EK	AB

Ref. No.	Part No.	★	Description	Code
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DIODES

D1602	VHD1SV217//1	J	Diode 1SV217	AB
D1604	RH-EX0551CEZZ	J	Zener Diode	AB
D1605	VHDM152WK/-1	J	Diode MA152WK	AA
D1606	RH-EX0227CEZZ	J	Zener Diode	AB

COIL AND TRANSFORMERS

L1601	RCILB0077CEZZ	J	Oscillation Coil	AL
L1602	VP-MK150K0000	J	Peaking 15μH	AB
L1603	VP-MK220K0000	J	Peaking 22μH	AB
L1604	VP-MK220K0000	J	Peaking 22μH	AB
L1801	RCILP0168TAZZ	J	Coil	AF
L1802	RCILP0168TAZZ	J	Coil	AF
L1803	VP-MK220K0000	J	Peaking 22μH	AB
L1804	VP-MK220K0000	J	Peaking 22μH	AB
L1805	VP-MK220K0000	J	Peaking 22μH	AB
L1806	VP-MK220K0000	J	Peaking 22μH	AB
L1807	VP-MK220K0000	J	Peaking 22μH	AB
L1808	VP-MK220K0000	J	Peaking 22μH	AB
L1809	VP-MK220K0000	J	Peaking 22μH	AB

CONTROLS

R1603	RVR-M8003TAZZ	J	10k(B) H-Center	AC
R1650	RVR-M8007TAZZ	J	47k(B) Colour Shade	AC
R1885	RVR-M8000TAZZ	J	3.3k(B) Comm. DC Bias-R	AB
R1889	RVR-M8000TAZZ	J	3.3k(B) Comm. DC Bias-G	AB
R1893	RVR-M8000TAZZ	J	3.3k(B) Comm. DC Bias-B	AB

CAPACITORS

C1601	VCCCTV1HH391J	J	390p 50V Ceramic	AA
C1602	VCEAGA1EW475M	J	4.7 25V Electrolytic	AA
C1603	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1605	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1606	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1607	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1608	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1609	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1610	VCCCTV1HH151J	J	150p 50V Ceramic	AA
C1611	VCEAGA1CW476M	J	47 16V Electrolytic	AB
C1612	VCQYTA1HM563J	J	0.056 50V Mylar	AB
C1613	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1614	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1615	VCE9GA1EW106M	J	10 25V Elect. (N.P)	AB
C1617	VCEAGA0JW476M	J	47 6.3V Electrolytic	AB
C1618	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1619	VCCCTV1HH561J	J	560p 50V Ceramic	AA
C1620	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1621	VCCCTV1HH151J	J	150p 50V Ceramic	AA
C1622	VCCCTV1HH151J	J	150p 50V Ceramic	AA
C1623	VCCCTV1HH561J	J	560p 50V Ceramic	AA
C1624	VCCCTV1HH470J	J	47p 50V Ceramic	AA
C1625	VCCCTV1HH100D	J	10p 50V Ceramic	AA
C1626	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1627	VCCCTV1HH221J	J	220p 50V Ceramic	AA
C1628	VCEAGA1CW106M	J	10 16V Electrolytic	AA
C1630	VCKYTV1HB103K	J	0.01 50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
DUNTK8900DE05				
CONTROL UNIT (Continued)				
C1631	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1632	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1633	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1634	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C1635	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C1636	VCQYTA1HM223J	J 0.022	50V Mylar	AA
C1637	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1638	VCCCTV1HH221J	J 220p	50V Ceramic	AA
C1639	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1640	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1641	VCEAGA1CW227M	J 220	16V Electrolytic	AC
C1644	VCCCTV1HH821J	J 820p	50V Ceramic	AB
C1645	VCCCY1HH560J	J 56p	50V Ceramic	AA
C1646	VCCCTV1HH120J	J 12p	50V Ceramic	AA
C1803	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1804	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C1805	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1806	VCEAGA1AW107M	J 100	10V Electrolytic	AB
C1807	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1808	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1809	VCEAGA1EW106M	J 10	25V Electrolytic	AB
C1810	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1811	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C1812	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1813	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1814	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C1815	VCEAGA1AW107M	J 100	10V Electrolytic	AB
C1817	VCEAGA1EW106M	J 10	25V Electrolytic	AB
C1818	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1819	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1820	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C1822	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1823	VCEAGA1AW107M	J 100	10V Electrolytic	AB
C1824	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1825	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C1826	VCEAGA1EW106M	J 10	25V Electrolytic	AB
C1827	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1828	VCKYTV1EF104Z	J 0.1	25V Ceramic	AB
C1829	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C1833	VCEAGA1CW227M	J 220	16V Electrolytic	AC
C1835	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1841	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1843	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1844	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1846	VCE9GA1HW105M	J 1	50V Elect. (N.P)	AB
C1848	VCE9GA1HW105M	J 1	50V Elect. (N.P)	AB
C1849	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C1850	VCE9GA1HW105M	J 1	50V Elect. (N.P)	AB
C1857	VCEAGA1CW477M	J 470	16V Electrolytic	AC
C1859	VCEAGA1CW227M	J 220	16V Electrolytic	AC
C1878	VCEAGA1CW476M	J 47	16V Electrolytic	AB
C1879	VCKYTV1HB103K	J 0.01	50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
RESISTORS				
R1603	<i>See Controls</i>			
R1605	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1606	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1607	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1608	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1609	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1610	VRS-TV1JD104J	J 100k	1/10W Metal Oxide	AA
R1611	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1612	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1613	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1614	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1615	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1616	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1617	VRS-TV1JD105J	J 1M	1/10W Metal Oxide	AA
R1618	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1619	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1620	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R1621	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R1622	VRS-TV1JD222J	J 2.2k	1/10W Metal Oxide	AA
R1625	VRS-TV1JD562J	J 5.6k	1/10W Metal Oxide	AA
R1626	VRS-TV1JD562J	J 5.6k	1/10W Metal Oxide	AA
R1627	VRS-TV1JD562J	J 5.6k	1/10W Metal Oxide	AA
R1629	VRS-TX2HF121J	J 120	1/2W Metal Oxide	AB
R1630	VRS-TX2HF121J	J 120	1/2W Metal Oxide	AB
R1631	VRS-TV1JD472J	J 4.7k	1/10W Metal Oxide	AA
R1632	VRD-RA2BE472J	J 4.7k	1/8W Carbon	AA
R1633	VRS-TV1JD561J	J 560	1/10W Metal Oxide	AA
R1634	VRS-TV1JD561J	J 560	1/10W Metal Oxide	AA
R1635	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1637	VRS-TV1JD561J	J 560	1/10W Metal Oxide	AA
R1638	VRS-TV1JD561J	J 560	1/10W Metal Oxide	AA
R1639	VRS-TV1JD561J	J 560	1/10W Metal Oxide	AA
R1640	VRS-TV1JD331J	J 330	1/10W Metal Oxide	AA
R1641	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R1642	VRS-TV1JD472J	J 4.7k	1/10W Metal Oxide	AA
R1643	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R1644	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R1645	VRS-TV1JD562J	J 5.6k	1/10W Metal Oxide	AA
R1646	VRS-TV1JD562J	J 5.6k	1/10W Metal Oxide	AA
R1647	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R1648	VRS-TV1JD562J	J 5.6k	1/10W Metal Oxide	AA
R1649	VRS-TV1JD123J	J 12k	1/10W Metal Oxide	AA
R1650	<i>See Controls</i>			
R1651	VRS-TV1JD823J	J 82k	1/10W Metal Oxide	AA
R1652	VRS-TV1JD104J	J 100k	1/10W Metal Oxide	AA
R1653	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R1654	VRS-TV1JD273J	J 27k	1/10W Metal Oxide	AA
R1655	VRS-TV1JD104J	J 100k	1/10W Metal Oxide	AA
R1656	VRS-TV1JD104J	J 100k	1/10W Metal Oxide	AA
R1657	VRS-TV1JD331J	J 330	1/10W Metal Oxide	AA
R1658	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R1659	VRS-TV1JD331J	J 330	1/10W Metal Oxide	AA
R1660	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R1661	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R1664	VRS-TV1JD472J	J 4.7k	1/10W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNK8900DE05									
CONTROL UNIT (Continued)									
R1665	VRS-TV1JD683J	J	68k 1/10W	Metal Oxide AA	R1826	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA
R1666	VRS-TV1JD472J	J	4.7k 1/10W	Metal Oxide AA	R1827	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA
R1667	VRS-TV1JD473J	J	47k 1/10W	Metal Oxide AA	R1828	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA
R1668	VRS-TV1JD105J	J	1M 1/10W	Metal Oxide AA	R1829	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA
R1669	VRS-TV1JD183J	J	18k 1/10W	Metal Oxide AA	R1830	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA
R1670	VRS-TV1JD823J	J	82k 1/10W	Metal Oxide AA	R1831	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA
R1671	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide AA	R1832	VRS-TW2ED5R6J	J	5.6 1/4W	Metal Oxide AA
R1672	VRS-TV1JD391J	J	390 1/10W	Metal Oxide AA	R1833	VRS-TV1JD223J	J	22k 1/10W	Metal Oxide AA
R1673	VRS-TV1JD472J	J	4.7k 1/10W	Metal Oxide AA	R1835	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA
R1674	VRS-TV1JD332J	J	3.3k 1/10W	Metal Oxide AA	R1836	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA
R1675	VRS-TV1JD181J	J	180 1/10W	Metal Oxide AA	R1837	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA
R1676	VRS-TV1JD561J	J	560 1/10W	Metal Oxide AA	R1838	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA
R1677	VRS-TV1JD272J	J	2.7k 1/10W	Metal Oxide AA	R1839	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA
R1678	VRS-TV1JD682J	J	6.8k 1/10W	Metal Oxide AA	R1840	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA
R1679	VRS-TV1JD472J	J	4.7k 1/10W	Metal Oxide AA	R1841	VRS-TW2ED5R6J	J	5.6 1/4W	Metal Oxide AA
R1680	VRS-TV1JD471J	J	470 1/10W	Metal Oxide AA	R1842	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
R1681	VRS-TV1JD471J	J	470 1/10W	Metal Oxide AA	R1843	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
R1682	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide AA	R1844	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA
R1683	VRS-TV1JD472J	J	4.7k 1/10W	Metal Oxide AA	R1845	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA
R1684	VRS-TV1JD472J	J	4.7k 1/10W	Metal Oxide AA	R1846	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA
R1688	VRS-TV1JD271J	J	270 1/10W	Metal Oxide AA	R1847	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA
R1689	VRS-TV1JD750J	J	75 1/10W	Metal Oxide AA	R1848	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA
R1690	VRS-TV1JD271J	J	270 1/10W	Metal Oxide AA	R1849	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA
R1691	VRS-TV1JD750J	J	75 1/10W	Metal Oxide AA	R1850	VRS-TW2ED5R6J	J	5.6 1/4W	Metal Oxide AA
R1692	VRS-TV1JD271J	J	270 1/10W	Metal Oxide AA	R1851	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
R1693	VRS-TV1JD750J	J	75 1/10W	Metal Oxide AA	R1852	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
R1696	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA	R1853	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA
R1697	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA	R1854	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA
R1698	VRS-TV1JD561J	J	560 1/10W	Metal Oxide AA	R1855	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA
R1699	VRS-TV1JD151J	J	150 1/10W	Metal Oxide AA	R1856	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA
R1801	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA	R1857	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA
R1802	VRS-TV1JD6R8J	J	6.8 1/10W	Metal Oxide AA	R1858	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA
R1803	VRS-TV1JD6R8J	J	6.8 1/10W	Metal Oxide AA	R1859	VRS-TW2ED5R6J	J	5.6 1/4W	Metal Oxide AA
R1804	VRS-TV1JD6R8J	J	6.8 1/10W	Metal Oxide AA	R1860	VRS-TX2HF100J	J	10 1/2W	Metal Oxide AA
R1805	VRS-TV1JD472J	J	4.7k 1/10W	Metal Oxide AA	R1862	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide AA
R1806	VRS-TW2ED562J	J	5.6k 1/4W	Metal Oxide AB	R1863	VRS-TV1JD472J	J	4.7k 1/10W	Metal Oxide AA
R1807	VRS-TX2HF100J	J	10 1/2W	Metal Oxide AA	R1865	VRS-TV1JD100J	J	10 1/10W	Metal Oxide AA
R1808	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA	R1866	VRS-TV1JD105J	J	1M 1/10W	Metal Oxide AA
R1809	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA	R1867	VRS-TV1JD105J	J	1M 1/10W	Metal Oxide AA
R1810	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA	R1868	VRS-TV1JD333J	J	33k 1/10W	Metal Oxide AA
R1811	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA	R1869	VRS-TV1JD333J	J	33k 1/10W	Metal Oxide AA
R1812	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA	R1870	VRS-TV1JD333J	J	33k 1/10W	Metal Oxide AA
R1813	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA	R1871	VRS-TV1JD333J	J	33k 1/10W	Metal Oxide AA
R1814	VRS-TW2ED5R6J	J	5.6 1/4W	Metal Oxide AA	R1872	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
R1815	VRS-TV1JD223J	J	22k 1/10W	Metal Oxide AA	R1873	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
R1817	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA	R1874	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
R1818	VRS-TW2ED222J	J	2.2k 1/4W	Metal Oxide AA	R1875	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
R1819	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA	R1876	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
R1820	VRS-TV1JD101J	J	100 1/10W	Metal Oxide AA	R1877	VRS-TV1JD105J	J	1M 1/10W	Metal Oxide AA
R1821	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA	R1878	VRS-TV1JD105J	J	1M 1/10W	Metal Oxide AA
R1822	VRS-TW2ED100J	J	10 1/4W	Metal Oxide AA	R1879	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
R1823	VRS-TW2ED5R6J	J	5.6 1/4W	Metal Oxide AA	R1880	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
R1824	VRS-TV1JD223J	J	22k 1/10W	Metal Oxide AA	R1881	VRS-TV1JD104J	J	100k 1/10W	Metal Oxide AA
					R1882	VRS-TV1JD105J	J	1M 1/10W	Metal Oxide AA
					R1883	VRS-TV1JD105J	J	1M 1/10W	Metal Oxide AA
					R1884	VRS-TV1JD822J	J	8.2k 1/10W	Metal Oxide AA

Ref. No.	Part No.	★	Description	Code
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CONTROL UNIT (Continued)

R1885	See Controls				
R1886	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA	
R1887	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA	
R1888	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA	
R1889	See Controls				
R1890	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA	
R1891	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA	
R1892	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA	
R1893	See Controls				
R1894	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA	
R1895	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA	
R1896	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA	
R1897	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA	
R1898	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA	
R1899	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA	
R1901	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA	
R1902	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA	
R1903	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA	
R1904	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA	
R1905	VRS-TV1JD151J	J	150 1/10W Metal Oxide	AA	
R1922	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA	
R1923	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA	
R1929	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA	
R1931	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA	
R1932	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA	

SWITCHES

S1601	QSW-K0065GEZZ	J	Mute	AC	
S1602	QSW-S0215GEZZ	J	Factory Sw., Fix Center	AD	

MISCELLANEOUS PARTS

FB1602	RBLN-0060CEZZ	J	Ferrite Bead	AC	
P1301	QPLGN0578GEZZ	J	Plug 5-pin (AS)	AB	
P1302	QPLGN0478GEZZ	J	Plug 4-pin (AZ)	AB	
P1601	QPLGN0678GEZZ	J	Plug 6-pin (MF)	AB	
P1602	QPLGN0778GEZZ	J	Plug 7-pin (PD)	AC	
P1603	QPLGN0278GEZZ	J	Plug 2-pin TP3	AA	
P1604	QPLGN0778GEZZ	J	Plug 7-pin TP180*	AC	
P1605	QPLGN0278GEZZ	J	Plug 2-pin (SV)	AA	
P1801	QPLGN0190FJZZ	J	Plug 24-pin (R)	AG	
P1802	QPLGN0190FJZZ	J	Plug 24-pin (G)	AG	
P1803	QPLGN0190FJZZ	J	Plug 24-pin (B)	AG	
P1804	QPLGN1278GEZZ	J	Plug 12-pin (MG)	AC	
P2001	QPLGN1078GEZZ	J	Plug 10-pin (LE)	AC	
P2003	QPLGN1178GEZZ	J	Plug 11-pin (LC)	AC	
SC1601	QSOCZ2628CEZZ	J	Socket 26-pin (MA)	AF	
SC1602	QSOCZ3028CEZZ	J	Socket 30-pin (MB)	AF	
TP1601	QLUGP0110TAFW	J	Lug, Test Point	AA	
	QCNW-4456CEZZ	J	Connecting Cord (PD) (For Europe, U.K., Australia and New Zealand only)	AG	
	QCNW-4295CEZZ	J	Connecting Cord (PD) (Not for Europe, U.K., Australia and New Zealand)	AF	

Ref. No.	Part No.	★	Description	Code
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DUNTK8903FE05

VGA AMP. UNIT

INTEGRATED CIRCUITS

IC3001	VHILM1203N/-1	J	LM1203N	AW	
IC3002	VHILM1203N/-1	J	LM1203N	AW	
IC3003	VHINJ2233BM-1	J	NJM2233BM	AE	
IC3004	VHINJM2904M-1	J	NJM2904M	AE	
IC3005	VHINJM2904M-1	J	NJM2904M	AE	
IC3006	VHISNHC86NS-1	J	SN74HC86NS	AE	
IC3007	VHINJM2902M-1	J	NJM2902M	AF	
IC3008	VHILM6182IM-1	J	LM6182IM	AT	
IC3010	VHILM6182IM-1	J	LM6182IM	AT	
IC3012	VHILM6182IM-1	J	LM6182IM	AT	
IC3014	VHINJM3415M-1	J	NJM3415M	AT	
IC3015	VHITA79010S-1	J	TA79010S	AE	

TRANSISTORS

Q3001	VSIMX2////-1	J	IMX2	AB	
Q3002	VSIMT2////-1	J	IMT2	AB	
Q3003	VSIMX2////-1	J	IMX2	AB	
Q3004	VSIMT2////-1	J	IMT2	AB	
Q3005	VSIMX2////-1	J	IMX2	AB	
Q3006	VSIMT2////-1	J	IMT2	AB	
Q3007	VSIMX2////-1	J	IMX2	AB	
Q3008	VSIMT2////-1	J	IMT2	AB	
Q3009	VSIMX2////-1	J	IMX2	AB	
Q3010	VSIMT2////-1	J	IMT2	AB	
Q3011	VSIMX2////-1	J	IMX2	AB	
Q3012	VSIMT2////-1	J	IMT2	AB	
Q3101	VS2SC2412KQ-1	J	2SC2412	AA	
Q3102	VS2SA1037KQ-1	J	2SA1037	AA	
Q3103	VS2SC2412KQ-1	J	2SC2412	AA	
Q3104	VS2SA1037KQ-1	J	2SA1037	AA	
Q3105	VS2SC2412KQ-1	J	2SC2412	AA	
Q3106	VS2SA1037KQ-1	J	2SA1037	AA	
Q3301	VS2SC2412KQ-1	J	2SC2412	AA	

DIODES

D3101	VHDMA152WK/-1	J	Diode MA152WK	AA	
D3102	VHDMA152WK/-1	J	Diode MA152WK	AA	
D3103	VHDMA152WK/-1	J	Diode MA152WK	AA	
D3104	VHDMA152WK/-1	J	Diode MA152WK	AA	
D3105	VHDMA152WK/-1	J	Diode MA152WK	AA	
D3106	VHDMA152WK/-1	J	Diode MA152WK	AA	
D3107	RH-EX0497CEZZ	J	Zener Diode 3.3V	AC	
D3108	RH-EX0497CEZZ	J	Zener Diode 3.3V	AC	
D3109	RH-EX0497CEZZ	J	Zener Diode 3.3V	AC	

COILS

CF3101	RFILN0080GEZZ	J	Ceramic Filter	AD	
CF3102	RFILN0080GEZZ	J	Ceramic Filter	AD	
CF3103	RFILN0080GEZZ	J	Ceramic Filter	AD	
CF3104	RFILN0080GEZZ	J	Ceramic Filter	AD	
CF3105	RFILN0080GEZZ	J	Ceramic Filter	AD	
CF3106	RFILN0080GEZZ	J	Ceramic Filter	AD	

Ref. No.	Part No.	★	Description	Code
DUNTK8903FE05				
VGA AMP. UNIT (Continued)				
L3101	RCILC0055CEZZ	J	Coil	AD
L3102	RCILC0055CEZZ	J	Coil	AD
L3201	RCILC0055CEZZ	J	Coil	AD

CONTROLS

R3049	RVR-M7994TAZZ	J	330(B) VGA Gain-B	AB
R3052	RVR-M7994TAZZ	J	330(B) VGA Gain-G	AB
R3055	RVR-M7994TAZZ	J	330(B) VGA Gain-R	AB
R3062	RVR-M8003TAZZ	J	10k(B) VGA Bright-R	AC
R3063	RVR-M8003TAZZ	J	10k(B) VGA Bright-G	AC
R3064	RVR-M8003TAZZ	J	10k(B) VGA Bright-B	AC
R3202	RVR-M8003TAZZ	J	10k(B) Center Bias-G	AC
R3205	RVR-M8003TAZZ	J	10k(B) Center Bias-B	AC
R3213	RVR-M8003TAZZ	J	10k(B) Center Bias-R	AC
R3252	RVR-M7994TAZZ	J	330(B) VGA Gain-G	AB
R3313	RVR-M8007TAZZ	J	47k(B) Color Shade	AC

CAPACITORS

C3001	VCE9GA1HW106M	J	10	50V	Elect. (N.P)	AB
C3002	VCE9GA1HW106M	J	10	50V	Elect. (N.P)	AB
C3003	VCE9GA1HW106M	J	10	50V	Elect. (N.P)	AB
C3004	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C3005	VCE9GA1HW106M	J	10	50V	Elect. (N.P)	AB
C3006	VCE9GA1HW106M	J	10	50V	Elect. (N.P)	AB
C3007	VCE9GA1HW106M	J	10	50V	Elect. (N.P)	AB
C3008	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C3011	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3012	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3013	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3014	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3015	VCKYTV1CB474K	J	0.47	16V	Ceramic	AC
C3016	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3017	VCKYTV1CB474K	J	0.47	16V	Ceramic	AC
C3018	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3019	VCKYTV1CB474K	J	0.47	16V	Ceramic	AC
C3020	VCKYTV1CB474K	J	0.47	16V	Ceramic	AC
C3021	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3022	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3023	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3024	VCCCTV1HH5R0C	J	5p	50V	Ceramic	AA
C3025	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3026	VCCCTV1HH5R0C	J	5p	50V	Ceramic	AA
C3027	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3028	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3029	VCCCTV1HH5R0C	J	5p	50V	Ceramic	AA
C3030	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3031	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3032	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3033	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3034	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3035	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C3036	VCKYTV1CB474K	J	0.47	16V	Ceramic	AC
C3037	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB

Ref. No.	Part No.	★	Description		Code
C3038	VCKYTV1CB474K	J	0.47	16V Ceramic	AC
C3039	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3040	VCKYTV1CB474K	J	0.47	16V Ceramic	AC
C3041	VCKYTV1CB474K	J	0.47	16V Ceramic	AC
C3042	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3043	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3044	VCCCTV1HH5R0C	J	5p	50V Ceramic	AA
C3045	VCCCTV1HH5R0C	J	5p	50V Ceramic	AA
C3046	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3047	VCCCTV1HH5R0C	J	5p	50V Ceramic	AA
C3048	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3049	VCKYTV1HB103K	J	0.01	50V Ceramic	AA
C3050	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3051	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3052	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3053	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3054	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3101	VCEAGA1CW476M	J	47	16V Electrolytic	AB
C3102	VCEAGA1CW476M	J	47	16V Electrolytic	AB
C3103	VCEAGA1CW106M	J	10	16V Electrolytic	AA
C3104	VCEAGA1CW106M	J	10	16V Electrolytic	AA
C3105	VCEAGA1CW476M	J	47	16V Electrolytic	AB
C3106	VCEAGA1CW476M	J	47	16V Electrolytic	AB
C3107	VCCCTV1HH3R0C	J	3p	50V Ceramic	AA
C3109	VCKYTV1HB103K	J	0.01	50V Ceramic	AA
C3110	VCCCTV1HH3R0C	J	3p	50V Ceramic	AA
C3112	VCKYTV1HB103K	J	0.01	50V Ceramic	AA
C3113	VCCCTV1HH3R0C	J	3p	50V Ceramic	AA
C3114	VCKYTV1HB103K	J	0.01	50V Ceramic	AA
C3121	VCEAGA1CW106M	J	10	16V Electrolytic	AA
C3201	VCE9GA1CW106M	J	10	16V Elect. (N.P)	AB
C3202	VCE9GA1CW106M	J	10	16V Elect. (N.P)	AB
C3203	VCE9GA1CW106M	J	10	16V Elect. (N.P)	AB
C3204	VCE9GA1CW106M	J	10	16V Elect. (N.P)	AB
C3205	VCEAGA1CW107M	J	100	16V Electrolytic	AB
C3206	VCEAGA0JW107M	J	100	6.3V Electrolytic	AB
C3207	VCEAGA1CW107M	J	100	16V Electrolytic	AB
C3208	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3209	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3210	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3211	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3212	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3214	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3215	VCEAGA1CW106M	J	10	16V Electrolytic	AA
C3216	VCEAGA1CW107M	J	100	16V Electrolytic	AB
C3217	VCEAGA1CW107M	J	100	16V Electrolytic	AB
C3301	VCEAGA1CW476M	J	47	16V Electrolytic	AB
C3302	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3303	VQYTA1HM563J	J	0.056	50V Mylar	AB
C3304	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3305	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3306	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3307	VCKYTV1EF104Z	J	0.1	25V Ceramic	AB
C3308	VCKYTV1HB103K	J	0.01	50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
DUNTK8903FE05				
VGA AMP. UNIT (Continued)				
RESISTORS				
R3001	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R3002	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R3003	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R3004	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R3005	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R3007	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3008	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R3009	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R3010	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R3011	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R3012	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R3013	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R3015	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3016	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R3017	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R3018	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R3019	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R3020	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R3021	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R3022	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R3024	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3025	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R3026	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R3027	VRS-TV1JD681J	J	680 1/10W Metal Oxide	AA
R3029	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R3030	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R3031	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R3032	VRS-TV1JD221J	J	220 1/10W Metal Oxide	AA
R3033	VRS-TV1JD820J	J	82 1/10W Metal Oxide	AA
R3034	VRS-TV1JD221J	J	220 1/10W Metal Oxide	AA
R3035	VRS-TV1JD820J	J	82 1/10W Metal Oxide	AA
R3036	VRS-TV1JD221J	J	220 1/10W Metal Oxide	AA
R3037	VRS-TV1JD820J	J	82 1/10W Metal Oxide	AA
R3038	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R3039	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R3040	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R3041	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R3042	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R3043	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R3044	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R3045	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R3046	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R3047	VRS-TV1JD221J	J	220 1/10W Metal Oxide	AA
R3048	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R3049	<i>See Controls</i>			
R3050	VRS-TV1JD221J	J	220 1/10W Metal Oxide	AA
R3051	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R3052	<i>See Controls</i>			
R3053	VRS-TV1JD221J	J	220 1/10W Metal Oxide	AA
R3054	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R3055	<i>See Controls</i>			
R3056	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R3057	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R3058	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R3061	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R3062	<i>See Controls</i>			
R3063	<i>See Controls</i>			
R3064	<i>See Controls</i>			
R3065	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R3067	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R3068	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R3070	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R3071	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R3072	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R3073	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R3074	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R3075	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R3076	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R3077	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R3078	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R3079	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R3080	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R3081	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R3082	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R3085	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R3101	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3102	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3103	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3104	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3105	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3106	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3107	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3108	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3109	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3110	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3111	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3112	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3113	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3114	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3115	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3116	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3117	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3118	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3119	VRN-TV1JD152D	J	1.5k 1/10W Metal Film	AA
R3120	VRN-TV1JD472D	J	4.7k 1/10W Metal Film	AA
R3121	VRN-TV1JD512D	J	5.1k 1/10W Metal Film	AB
R3122	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3123	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3124	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3125	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3126	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3127	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3128	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3129	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3130	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3131	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3132	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3133	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
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VGA AMP. UNIT (Continued)

R3134	VRN-TV1JD182D	J	1.8k 1/10W Metal Film	AA
R3135	VRS-TX2HF470J	J	47 1/2W Metal Oxide	AA
R3201	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R3202	See Controls			
R3203	VRS-TV1JD182J	J	1.8k 1/10W Metal Oxide	AA
R3204	VRS-TV1JD182J	J	1.8k 1/10W Metal Oxide	AA
R3205	See Controls			
R3206	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R3207	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R3208	VRN-TV1JD122D	J	1.2k 1/10W Metal Film	AA
R3209	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R3210	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R3211	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA
R3212	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R3213	See Controls			
R3214	VRS-TV1JD182J	J	1.8k 1/10W Metal Oxide	AA
R3215	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R3216	VRN-TV1JD562D	J	5.6k 1/10W Metal Film	AA
R3217	VRN-TV1JD153D	J	15k 1/10W Metal Film	AA
R3218	VRN-TV1JD272D	J	2.7k 1/10W Metal Film	AA
R3252	See Controls			
R3301	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R3302	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R3303	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R3304	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R3305	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R3306	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R3307	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R3308	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R3309	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R3310	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R3311	VRS-TV1JD823J	J	82k 1/10W Metal Oxide	AA
R3312	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R3313	See Controls			
R3314	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R3316	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R3317	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R3318	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R3320	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R3321	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R3322	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R3323	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R3324	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R3325	VRS-TV1JD393J	J	39k 1/10W Metal Oxide	AA
R3326	VRS-TV1JD393J	J	39k 1/10W Metal Oxide	AA

MISCELLANEOUS PARTS

P3001	QPLGN1278GEZZ	J	Plug 12-pin (PC)	AC
P3002	QPLGN0378GEZZ	J	Plug 3-pin (EG)	AB
P3101	QPLGN1278GEZZ	J	Plug 12-pin (MG)	AC
P3201	QPLGN0678GEZZ	J	Plug 6-pin (MF)	AB
P3301	QPLGN0678GEZZ	J	Plug 6-pin (MP)	AB
TP3101	QLUGP0110TAFW	J	Lug, Test Point	AA

Ref. No.	Part No.	★	Description	Code
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TP3102	QLUGP0110TAFW	J	Lug, Test Point	AA
TP3103	QLUGP0110TAFW	J	Lug, Test Point	AA
TP3301	QPLGN0278GEZZ	J	Plug 2-pin, Test Point	AA
	QCNW-4455CEZZ	J	Connecting Cord (PC)	AL
			(For Europe, U.K., Australia and New Zealand only)	
	QCNW-4296CEZZ	J	Connecting Cord (PC)	AH
			(Not for Europe, U.K., Australia and New Zealand)	
	QCNW-4453CEZZ	J	Connecting Cord (EG)	AG
			(For Europe, U.K., Australia and New Zealand only)	
	QCNW-4338CEZZ	J	Connecting Cord (EG)	AG
			(Not for Europe, U.K., Australia and New Zealand)	

Ref. No.	Part No.	★	Description	Code
DUNTK8965FE01 SCAN CONVERTER UNIT				
INTEGRATED CIRCUITS				
IC4101	RH-IX2379CEZZ	J	IX2379CE	AY
IC4102	RH-IX2063CEZZ	J	UPD42102G-3	AV
IC4103	RH-IX0142TAZZ	J	UPC659G	AU
IC4104	VHiMB40778F-1	J	MB40778PF	AN
IC4105	VHiSC7S04F-1	J	SC7S04F	AC
IC4106	VHiNJM2107F-1	J	NJM2107F	AE
IC4107	RH-IX2174CEZZ	J	MC74HC4538FR	AG
IC4108	VHiMC14577F-1	J	MC14577BF	AG
IC4109	VHiMC14577F-1	J	MC14577BF	AG
IC4110	VHiMC14577F-1	J	MC14577BF	AG
IC4111	VHiNJM2283F-1	J	NJM2283M	AF
IC4112	VHiPQ05TZ11-1	J	PQ05TZ11	AH
TRANSISTORS				
Q4101	VS2SA1037KQ-1	J	2SA1037	AA
Q4102	VS2SC2412KQ-1	J	2SC2412	AA
Q4103	VS2SA1037KQ-1	J	2SA1037	AA
Q4104	VS2SC2412KQ-1	J	2SC2412	AA
Q4105	VS2SC2412KQ-1	J	2SC2412	AA
Q4106	VS2SA1037KQ-1	J	2SA1037	AA
Q4107	VS2SC2412KQ-1	J	2SC2412	AA
Q4108	VS2SC2412KQ-1	J	2SC2412	AA
Q4109	VS2SA1037KQ-1	J	2SA1037	AA
Q4110	VS2SC2412KQ-1	J	2SC2412	AA
Q4113	VS2SA1037KQ-1	J	2SA1037	AA
Q4114	VS2SA1037KQ-1	J	2SA1037	AA
Q4115	VS2SC2412KQ-1	J	2SC2412	AA
DIODES				
D4101	VH DMA152WK/-1	J	Diode MA152WK	AA
D4102	VH D1SV217/-1	J	Diode 1SV217	AB
COILS				
DL4101	RCILF0135GEZZ	J	Delay Line Coil	AL
DL4102	RCILF0135GEZZ	J	Delay Line Coil	AL
FL4101	RCILF0214CEZZ	J	Filter Coil	AF
L4101	RCILB0065CEZZ	J	VCO2 Adj. Coil	AG
L4102	VP-1M3R3JR93N	J	Peaking 3.3μH	AB
L4103	RCILC0055CEZZ	J	Coil	AD
CAPACITORS				
C4100	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4101	VCE9PF1CW106M	J	10 16V Elect. (N.P)	AC
C4102	VCE9PF1CW106M	J	10 16V Elect. (N.P)	AC
C4103	VCE9PF1CW106M	J	10 16V Elect. (N.P)	AC
C4104	VCE9PF1CW106M	J	10 16V Elect. (N.P)	AC
C4105	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C4106	VCE9PF1CW106M	J	10 16V Elect. (N.P)	AC
C4107	VCE9PF1CW475M	J	4.7 16V Elect. (N.P)	AC
C4108	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C4109	VCEAPH1HW225M	J	2.2 50V Electrolytic	AB
C4110	VCEAPH1HW225M	J	2.2 50V Electrolytic	AB

Ref. No.	Part No.	★	Description	Code
C4111	VCEAPH1HW225M	J	2.2 50V Electrolytic	AB
C4112	VCEAPF0JW107M	J	100 6.3V Electrolytic	AC
C4113	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4114	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4115	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4116	VCCCCY1EH102J	J	1000p 25V Ceramic	AB
C4117	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4118	VCCCCY1HH470J	J	47p 50V Ceramic	AA
C4119	VCCCCY1HH330J	J	33p 50V Ceramic	AA
C4120	VCCCCY1HH471J	J	470p 50V Ceramic	AA
C4121	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4122	VCCCCY1EH561J	J	560p 25V Ceramic	AA
C4123	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4124	VCEAPF0JW107M	J	100 6.3V Electrolytic	AC
C4125	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4126	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4127	VCEAPF0JW107M	J	100 6.3V Electrolytic	AC
C4128	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4129	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4130	VCEAPH1HW105M	J	1.0 50V Electrolytic	AB
C4131	VCCCCY1EH561J	J	560p 25V Ceramic	AA
C4132	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4133	VCCCCY1HH270J	J	27p 50V Ceramic	AA
C4134	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C4135	VCCCCY1HH220J	J	22p 50V Ceramic	AA
C4136	VCEAPK1CN107M	J	100 16V Electrolytic	AD
C4137	VCEAPF0JW107M	J	100 6.3V Electrolytic	AC
C4138	VCEAPF0JW107M	J	100 6.3V Electrolytic	AC
C4139	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4140	VCKYCY1EB103K	J	0.01 25V Ceramic	AA
C4141	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C4142	VCEAPH1CW106M	J	10 16V Electrolytic	AB
C4143	VCEAPH1HW225M	J	2.2 50V Electrolytic	AB
C4144	VCCCCY1EH102J	J	1000p 25V Ceramic	AB
RESISTORS				
R4100	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R4101	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R4102	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R4103	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R4104	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R4106	VRS-CY1JF821J	J	820 1/16W Metal Oxide	AA
R4107	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R4108	VRS-CY1JF391J	J	390 1/16W Metal Oxide	AA
R4109	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R4110	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA
R4111	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R4112	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R4113	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R4114	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R4115	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R4116	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R4117	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R4118	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R4119	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R4120	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
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DUNTK8965FE01**SCAN CONVERTER UNIT (Continued)**

R4121	VRS-CY1JF471J	J	470 1/16W	Metal Oxide AA
R4122	VRS-CY1JF102J	J	1k 1/16W	Metal Oxide AA
R4123	VRS-CY1JF122J	J	1.2k 1/16W	Metal Oxide AA
R4124	VRS-CY1JF242J	J	2.4k 1/16W	Metal Oxide AA
R4125	VRS-CY1JF103J	J	10k 1/16W	Metal Oxide AA
R4126	VRS-CY1JF562J	J	5.6k 1/16W	Metal Oxide AA
R4127	VRS-CY1JF392J	J	3.9k 1/16W	Metal Oxide AA
R4128	VRS-CY1JF272J	J	2.7k 1/16W	Metal Oxide AA
R4129	VRS-CY1JF272J	J	2.7k 1/16W	Metal Oxide AA
R4130	VRS-CB1JF271J	J	270 1/16W	Metal Oxide AC
R4131	VRS-CB1JF271J	J	270 1/16W	Metal Oxide AC
R4132	VRS-CB1JF391J	J	390 1/16W	Metal Oxide AC
R4133	VRS-CB1JF391J	J	390 1/16W	Metal Oxide AC
R4134	VRS-CY1JF272J	J	2.7k 1/16W	Metal Oxide AA
R4135	VRS-CY1JF222J	J	2.2k 1/16W	Metal Oxide AA
R4136	VRS-CY1JF182J	J	1.8k 1/16W	Metal Oxide AA
R4137	VRS-CY1JF392J	J	3.9k 1/16W	Metal Oxide AA
R4138	VRS-CY1JF182J	J	1.8k 1/16W	Metal Oxide AA
R4139	VRS-CY1JF393J	J	39k 1/16W	Metal Oxide AA
R4140	VRS-CY1JF223J	J	22k 1/16W	Metal Oxide AA
R4141	VRS-CY1JF271J	J	270 1/16W	Metal Oxide AA
R4143	VRS-CY1JF681J	J	680 1/16W	Metal Oxide AA
R4145	VRS-CY1JF102J	J	1k 1/16W	Metal Oxide AA
R4146	VRS-CY1JF102J	J	1k 1/16W	Metal Oxide AA
R4147	VRS-CY1JF391J	J	390 1/16W	Metal Oxide AA
R4149	VRS-CY1JF103J	J	10k 1/16W	Metal Oxide AA
R4150	VRS-CY1JF122J	J	1.2k 1/16W	Metal Oxide AA
R4151	VRS-CY1JF222J	J	2.2k 1/16W	Metal Oxide AA
R4152	VRS-CY1JF561J	J	560 1/16W	Metal Oxide AA
R4153	VRS-CY1JF560J	J	56 1/16W	Metal Oxide AA
R4154	VRS-CY1JF271J	J	270 1/16W	Metal Oxide AA
R4155	VRS-CY1JF271J	J	270 1/16W	Metal Oxide AA
R4156	VRS-CY1JF101J	J	100 1/16W	Metal Oxide AA
R4157	VRS-CY1JF563J	J	56k 1/16W	Metal Oxide AA
R4158	VRS-CY1JF101J	J	100 1/16W	Metal Oxide AA
R4159	VRS-CY1JF563J	J	56k 1/16W	Metal Oxide AA
R4160	VRS-CY1JF103J	J	10k 1/16W	Metal Oxide AA
R4161	VRS-CY1JF683J	J	68k 1/16W	Metal Oxide AA
R4162	VRS-CY1JF105J	J	1M 1/16W	Metal Oxide AA
R4163	VRS-CY1JF682J	J	6.8k 1/16W	Metal Oxide AA
R4164	VRS-CY1JF683J	J	68k 1/16W	Metal Oxide AA
R4165	VRS-CY1JF273J	J	27k 1/16W	Metal Oxide AA
R4166	VRS-CY1JF472J	J	4.7k 1/16W	Metal Oxide AA
R4167	VRS-CY1JF472J	J	4.7k 1/16W	Metal Oxide AA
R4168	VRS-CY1JF105J	J	1M 1/16W	Metal Oxide AA
R4169	VRS-CB1JF391J	J	390 1/16W	Metal Oxide AC
R4170	VRS-CB1JF391J	J	390 1/16W	Metal Oxide AC
R4171	VRS-CY1JF560J	J	56 1/16W	Metal Oxide AA
R4172	VRS-CY1JF272J	J	2.7k 1/16W	Metal Oxide AA
R4173	VRS-CY1JF102J	J	1k 1/16W	Metal Oxide AA
R4174	VRS-CY1JF102J	J	1k 1/16W	Metal Oxide AA
R4175	VRS-CY1JF102J	J	1k 1/16W	Metal Oxide AA
R4176	VRS-CY1JF152J	J	1.5k 1/16W	Metal Oxide AA

Ref. No.	Part No.	★	Description	Code
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R4177	VRS-CY1JF333J	J	33k 1/16W	Metal Oxide AA
R4178	VRS-CY1JF823J	J	82k 1/16W	Metal Oxide AA
R4179	VRS-CY1JF182J	J	1.8k 1/16W	Metal Oxide AA
R4180	VRS-CY1JF102J	J	1k 1/16W	Metal Oxide AA
R4181	VRS-CY1JF102J	J	1k 1/16W	Metal Oxide AA
R4182	VRS-CY1JF560J	J	56 1/16W	Metal Oxide AA
R4183	VRS-CY1JF682J	J	6.8k 1/16W	Metal Oxide AA
R4184	VRS-CY1JF101J	J	100 1/16W	Metal Oxide AA
R4185	VRS-CY1JF101J	J	100 1/16W	Metal Oxide AA
R4187	VRS-CY1JF272J	J	2.7k 1/16W	Metal Oxide AA
R4188	VRS-CY1JF272J	J	2.7k 1/16W	Metal Oxide AA
R4189	VRS-CY1JF561J	J	560 1/16W	Metal Oxide AA
R4190	VRS-CY1JF103J	J	10k 1/16W	Metal Oxide AA
R4191	VRS-CY1JF272J	J	2.7k 1/16W	Metal Oxide AA
R4192	VRS-CY1JF101J	J	100 1/16W	Metal Oxide AA
R4193	VRS-CY1JF332J	J	3.3k 1/16W	Metal Oxide AA
R4194	VRS-CY1JF332J	J	3.3k 1/16W	Metal Oxide AA
R4195	VRS-CY1JF101J	J	100 1/16W	Metal Oxide AA
R4196	VRS-CY1JF823J	J	82k 1/16W	Metal Oxide AA
R4197	VRS-CY1JF683J	J	68k 1/16W	Metal Oxide AA
R4201	VRS-CY1JF000J	J	0 1/16W	Metal Oxide AA
R4202	VRS-CY1JF000J	J	0 1/16W	Metal Oxide AA
R4203	VRS-CY1JF000J	J	0 1/16W	Metal Oxide AA
R4205	VRS-TW2ED000J	J	0 1/4W	Metal Oxide AB
R4206	VRS-TW2ED000J	J	0 1/4W	Metal Oxide AB
R4207	VRS-CY1JF102J	J	1k 1/16W	Metal Oxide AA

MISCELLANEOUS PARTS

FB4102	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4103	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4104	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4106	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4107	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4108	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4109	RBLN-0059CEZZ	J	Ferrite Bead	AB
SC4101	QSOCZ2228CEZZ	J	Socket 22-pin (CA)	AF
TP4101	QLUGP0110TAFW	J	Lug, Test Point	AA
TP4102	QLUGP0110TAFW	J	Lug, Test Point	AA
	QCNW-4383CEZZ	J	Connecting Cord	AE

Ref. No.	Part No.	★	Description	Code
DUNTK9014FE01				
SHARPNESS CONTROL UNIT				
INTEGRATED CIRCUIT				
IC5801	VHIPA0030//1	J	PA0030	AP

TRANSISTORS

Q5801	VS2SC2412KQ-1	J	2SC2412	AA
Q5802	VS2SC2412KQ-1	J	2SC2412	AA
Q5803	VS2SC2412KQ-1	J	2SC2412	AA
Q5804	VS2SA1037KQ-1	J	2SA1037	AA
Q5805	VS2SC2412KQ-1	J	2SC2412	AA
Q5806	VS2SC2412KQ-1	J	2SC2412	AA
Q5807	VS2SC2412KQ-1	J	2SC2412	AA
Q5808	VS2SC2412KQ-1	J	2SC2412	AA
Q5811	VS2SC2412KQ-1	J	2SC2412	AA
Q5812	VSIMX2////-1	J	iMX2	AB
Q5813	VSIMT2////-1	J	iMT2	AB
Q5814	VSIMX2////-1	J	iMX2	AB
Q5815	VSIMT2////-1	J	iMT2	AB

COILS

DL5801	RCiLZ0931CEZZ	J	Delay Line Coil	AN
DL5802	RCiLZ0934CEZZ	J	Delay Line Coil	AG
L5801	RCiLC0055CEZZ	J	Coil	AD
L5802	VP-1M100J1R6N	J	Peaking 10μH	AC
L5803	VP-1M100J1R6N	J	Peaking 10μH	AC
L5804	VP-1M330J4R2N	J	Peaking 33μH	AC
L5805	VP-1M120J1R9N	J	Peaking 12μH	AC

CAPACITORS

C5801	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C5802	VCE9PF1CW106M	J	10	16V	Elect. (N.P)	AC
C5803	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C5804	VCCCTV1HH390J	J	39p	50V	Ceramic	AA
C5805	VCCCTV1HH151J	J	150p	50V	Ceramic	AA
C5806	VCCCTV1HH150J	J	15p	50V	Ceramic	AA
C5807	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C5808	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C5809	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C5810	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C5811	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C5812	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C5813	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C5814	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C5815	VCEAPH1HW105M	J	1	50V	Electrolytic	AB
C5817	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C5819	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C5820	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C5821	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C5822	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C5823	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C5824	VCE9PF1CW106M	J	10	16V	Elect. (N.P)	AC
C5825	VCCCTV1HH820J	J	82p	50V	Ceramic	AA
C5826	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C5827	VCE9PF1CW106M	J	10	16V	Elect. (N.P)	AC

Ref. No.	Part No.	★	Description	Code
C5828	VCCCTV1HH3R0C	J	3p 50V Ceramic	AA
C5829	VCCCTV1HH220J	J	22p 50V Ceramic	AA
C5832	VCCCTV1HH820J	J	82p 50V Ceramic	AA
C5833	VCCCTV1HH390J	J	39p 50V Ceramic	AA

RESISTORS

R5801	VRS-TV1JD273J	J	27k 1/10W	Metal Oxide	AA
R5802	VRS-TV1JD823J	J	82k 1/10W	Metal Oxide	AA
R5803	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5804	VRS-TV1JD471J	J	470 1/10W	Metal Oxide	AA
R5805	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5806	VRS-TV1JD392J	J	3.9k 1/10W	Metal Oxide	AA
R5807	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5808	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5809	VRS-TV1JD471J	J	470 1/10W	Metal Oxide	AA
R5810	VRS-TV1JD471J	J	470 1/10W	Metal Oxide	AA
R5811	VRS-TV1JD391J	J	390 1/10W	Metal Oxide	AA
R5812	VRS-TV1JD471J	J	470 1/10W	Metal Oxide	AA
R5813	VRS-TV1JD221J	J	220 1/10W	Metal Oxide	AA
R5814	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5815	VRS-TV1JD000J	J	0 1/10W	Metal Oxide	AA
R5816	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5817	VRS-TV1JD821J	J	820 1/10W	Metal Oxide	AA
R5818	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5819	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5820	VRS-TV1JD272J	J	2.7k 1/10W	Metal Oxide	AA
R5821	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5822	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5823	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide	AA
R5824	VRS-TV1JD682J	J	6.8k 1/10W	Metal Oxide	AA
R5825	VRS-TV1JD222J	J	2.2k 1/10W	Metal Oxide	AA
R5826	VRS-TV1JD223J	J	22k 1/10W	Metal Oxide	AA
R5827	VRS-TV1JD123J	J	12k 1/10W	Metal Oxide	AA
R5828	VRS-TV1JD123J	J	12k 1/10W	Metal Oxide	AA
R5829	VRS-TV1JD392J	J	3.9k 1/10W	Metal Oxide	AA
R5830	VRS-TV1JD562J	J	5.6k 1/10W	Metal Oxide	AA
R5832	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide	AA
R5833	VRS-TV1JD822J	J	8.2k 1/10W	Metal Oxide	AA
R5834	VRS-TV1JD222J	J	2.2k 1/10W	Metal Oxide	AA
R5835	VRS-TV1JD271J	J	270 1/10W	Metal Oxide	AA
R5836	VRS-TV1JD561J	J	560 1/10W	Metal Oxide	AA
R5837	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R5838	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5839	VRS-TV1JD333J	J	33k 1/10W	Metal Oxide	AA
R5840	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide	AA
R5841	VRS-TV1JD561J	J	560 1/10W	Metal Oxide	AA
R5843	VRS-TV1JD222J	J	2.2k 1/10W	Metal Oxide	AA
R5844	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R5845	VRS-TV1JD000J	J	0 1/10W	Metal Oxide	AA
R5847	VRS-TV1JD102J	J	1k 1/10W	Metal Oxide	AA
R5848	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide	AA
R5849	VRS-TV1JD103J	J	10k 1/10W	Metal Oxide	AA
R5850	VRS-TW2ED122J	J	1.2k 1/4W	Metal Oxide	AA
R5851	VRS-TW2ED122J	J	1.2k 1/4W	Metal Oxide	AA
R5852	VRS-TV1JD101J	J	100 1/10W	Metal Oxide	AA
R5853	VRS-TW2ED100J	J	10 1/4W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
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DUNTK9014FE01

SHARPNESS CONTROL UNIT (Continued)

R5854	VRS-TW2ED100J	J 10	1/4W	Metal Oxide	AA
R5855	VRS-TV1JD101J	J 100	1/10W	Metal Oxide	AA
R5856	VRS-TW2ED5R6J	J 5.6	1/4W	Metal Oxide	AA
R5857	VRS-TV1JD471J	J 470	1/10W	Metal Oxide	AA
R5858	VRS-TV1JD333J	J 33k	1/10W	Metal Oxide	AA
R5859	VRS-TV1JD333J	J 33k	1/10W	Metal Oxide	AA
R5860	VRS-TW2ED122J	J 1.2k	1/4W	Metal Oxide	AA
R5861	VRS-TV1JD101J	J 100	1/10W	Metal Oxide	AA
R5862	VRS-TW2ED122J	J 1.2k	1/4W	Metal Oxide	AA
R5863	VRS-TV1JD101J	J 100	1/10W	Metal Oxide	AA
R5864	VRS-TW2ED100J	J 10	1/4W	Metal Oxide	AA
R5865	VRS-TW2ED100J	J 10	1/4W	Metal Oxide	AA
R5866	VRS-TW2ED5R6J	J 5.6	1/4W	Metal Oxide	AA
R5867	VRS-TV1JD000J	J 0	1/10W	Metal Oxide	AA

MISCELLANEOUS PARTS

P5801	QPLGN1178GEZZ	J	Plug 11-pin (GH)		AC
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Ref. No.	Part No.	★	Description	Code
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RUNTK0510CEZZ

INPUT UNIT

INTEGRATED CIRCUITS

IC301	VHiNJM2245M-1	J	NJM2245M		AF
IC302	VHiNJM2245M-1	J	NJM2245M		AF
IC401	VHiNJM2245M-1	J	NJM2245M		AF
IC405	VHiNJM2245M-1	J	NJM2245M		AF
IC406	VHiNJM2233BM-1	J	NJM2233BM		AE
IC407	VHiNJM2245M-1	J	NJM2245M		AF

TRANSISTORS

Q301	VS2SC2412KQ-1	J	2SC2412K		AA
Q401	VSDTC144EK/-1	J	DTC144EK		AB
Q402	VSDTC144EK/-1	J	DTC144EK		AB
Q403	VSDTC144EK/-1	J	DTC144EK		AB
Q407	VS2SC2412KQ-1	J	2SC2412K		AA
Q408	VS2SC2412KQ-1	J	2SC2412K		AA
Q409	VSDTC144EK/-1	J	DTC144EK		AB
Q413	VSDTC144EK/-1	J	DTC144EK		AB
Q423	VSDTC144EK/-1	J	DTC144EK		AB

DIODES

D301	RH-EX0226CEZZ	J	Zener Diode		AB
D302	RH-EX0226CEZZ	J	Zener Diode		AB
D303	RH-EX0226CEZZ	J	Zener Diode		AB
D304	RH-EX0226CEZZ	J	Zener Diode		AB
D305	RH-EX0226CEZZ	J	Zener Diode		AB
D306	RH-EX0226CEZZ	J	Zener Diode		AB
D307	RH-EX0226CEZZ	J	Zener Diode		AB
D308	RH-EX0226CEZZ	J	Zener Diode		AB
D401	VHDM153///-1	J	Diode, MA153		AB
D402	VHDM153///-1	J	Diode, MA153		AB
D403	RH-EX0226CEZZ	J	Zener Diode		AB
D404	RH-EX0226CEZZ	J	Zener Diode		AB
D405	RH-EX0226CEZZ	J	Zener Diode		AB
D406	RH-EX0226CEZZ	J	Zener Diode		AB
D407	RH-EX0226CEZZ	J	Zener Diode		AB
D408	RH-EX0226CEZZ	J	Zener Diode		AB
D409	RH-EX0226CEZZ	J	Zener Diode		AB
D410	RH-EX0226CEZZ	J	Zener Diode		AB
D411	VHDM153///-1	J	Diode, MA153		AB
D412	VHDM153///-1	J	Diode, MA153		AB
D413	VHDM153///-1	J	Diode, MA153		AB
D416	RH-EX0226CEZZ	J	Zener Diode		AB
D420	RH-EX0226CEZZ	J	Zener Diode		AB

CAPACITORS

C301	VCEAGA1CW106M	J 10	16V	Electrolytic	AA
C302	VCEAGA1CW106M	J 10	16V	Electrolytic	AA
C303	VCEAGA1CW106M	J 10	16V	Electrolytic	AA
C304	VCKYTV1HB103K	J 0.01	50V	Ceramic	AA
C305	VCKYTV1HB103K	J 0.01	50V	Ceramic	AA
C306	VCEAGA1CW106M	J 10	16V	Electrolytic	AA
C307	VCEAGA1CW106M	J 10	16V	Electrolytic	AA
C308	VCEAGA1CW106M	J 10	16V	Electrolytic	AA

Ref. No.	Part No.	★	Description	Code
RUNTK0510CEZZ				
INPUT UNIT (Continued)				
C309	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C310	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C311	VCEAGA1CW476M	J 47	16V Electrolytic	AB
C312	VCEAGA1CW476M	J 47	16V Electrolytic	AB
C313	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C401	VCQYTA1HM104J	J 0.1	50V Mylar	AA
C402	VCQYTA1HM104J	J 0.1	50V Mylar	AA
C403	VCE9GA1CW106M	J 10	16V Elect. (N.P)	AB
C404	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C405	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C406	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C410	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C411	VCCCTV1HH680J	J 68p	50V Ceramic	AA
C415	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C416	VCCCTV1HH680J	J 68p	50V Ceramic	AA
C417	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C418	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C419	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C420	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C422	VCCCTV1HH680J	J 68p	50V Ceramic	AA
C423	VCCCTV1HH680J	J 68p	50V Ceramic	AA
C424	VCQYTA1HM104J	J 0.1	50V Mylar	AA
C425	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C426	VCEAPF1CW106M	J 10	16V Electrolytic	AB
C427	VCEAGA1CW106M	J 10	16V Electrolytic	AA
C428	VCEAGA1CW107M	J 100	16V Electrolytic	AB
C439	VCQYTA1HM104J	J 0.1	50V Mylar	AA
C440	VCKYTV1HB103K	J 0.01	50V Ceramic	AA
C443	VCEAGA1CW477M	J 470	16V Electrolytic	AC
C452	VCE9GA1CW106M	J 10	16V Elect. (N.P)	AB
C460	VCEAGA1HW105M	J 1	50V Electrolytic	AC

RESISTORS

R301	VRS-TV1JD123J	J 12k	1/10W Metal Oxide	AA
R302	VRS-TV1JD563J	J 56k	1/10W Metal Oxide	AA
R303	VRS-TV1JD123J	J 12k	1/10W Metal Oxide	AA
R304	VRS-TV1JD563J	J 56k	1/10W Metal Oxide	AA
R305	VRS-TV1JD123J	J 12k	1/10W Metal Oxide	AA
R306	VRS-TV1JD563J	J 56k	1/10W Metal Oxide	AA
R307	VRS-TV1JD123J	J 12k	1/10W Metal Oxide	AA
R308	VRS-TV1JD563J	J 56k	1/10W Metal Oxide	AA
R309	VRS-TV1JD123J	J 12k	1/10W Metal Oxide	AA
R310	VRS-TV1JD563J	J 56k	1/10W Metal Oxide	AA
R311	VRS-TV1JD123J	J 12k	1/10W Metal Oxide	AA
R312	VRS-TV1JD563J	J 56k	1/10W Metal Oxide	AA
R313	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R314	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R315	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R316	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R317	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R318	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R319	VRS-TV1JD272J	J 2.7k	1/10W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R320	VRS-TV1JD272J	J 2.7k	1/10W Metal Oxide	AA
R321	VRS-TV1JD152J	J 1.5k	1/10W Metal Oxide	AA
R322	VRS-TV1JD122J	J 1.2k	1/10W Metal Oxide	AA
R326	VRS-TV1JD681J	J 680	1/10W Metal Oxide	AA
R327	VRS-TV1JD105J	J 1M	1/10W Metal Oxide	AA
R329	VRS-TV1JD681J	J 680	1/10W Metal Oxide	AA
R330	VRS-TV1JD105J	J 1M	1/10W Metal Oxide	AA
R401	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R402	VRS-TV1JD750J	J 75	1/10W Metal Oxide	AA
R403	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R404	VRS-TV1JD750J	J 75	1/10W Metal Oxide	AA
R405	VRS-TV1JD182J	J 1.8k	1/10W Metal Oxide	AA
R406	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R407	VRS-TV1JD750J	J 75	1/10W Metal Oxide	AA
R408	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R409	VRS-TV1JD750J	J 75	1/10W Metal Oxide	AA
R410	VRS-TV2ED750J	J 75	1/4W Metal Oxide	AA
R411	VRS-TV1JD105J	J 1M	1/10W Metal Oxide	AA
R412	VRS-TV1JD681J	J 680	1/10W Metal Oxide	AA
R413	VRS-TV1JD681J	J 680	1/10W Metal Oxide	AA
R414	VRS-TV1JD750J	J 75	1/10W Metal Oxide	AA
R415	VRS-TV1JD750J	J 75	1/10W Metal Oxide	AA
R416	VRS-TV1JD122J	J 1.2k	1/10W Metal Oxide	AA
R417	VRS-TV1JD222J	J 2.2k	1/10W Metal Oxide	AA
R418	VRS-TV1JD000J	J 0	1/10W Metal Oxide	AA
R419	VRS-TV1JD750J	J 75	1/10W Metal Oxide	AA
R420	VRS-TV1JD000J	J 0	1/10W Metal Oxide	AA
R421	VRS-TV1JD750J	J 75	1/10W Metal Oxide	AA
R422	VRS-TV1JD000J	J 0	1/10W Metal Oxide	AA
R423	VRS-TV1JD750J	J 75	1/10W Metal Oxide	AA
R424	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R425	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R426	VRS-TV1JD472J	J 4.7k	1/10W Metal Oxide	AA
R427	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R428	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R429	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R431	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R432	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R433	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R443	VRS-TX2HF331J	J 330	1/2W Metal Oxide	AB
R444	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R445	VRS-TV1JD122J	J 1.2k	1/10W Metal Oxide	AA
R446	VRS-TV1JD122J	J 1.2k	1/10W Metal Oxide	AA
R447	VRS-TV1JD000J	J 0	1/10W Metal Oxide	AA
R448	VRS-TV1JD000J	J 0	1/10W Metal Oxide	AA
R466	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R470	VRS-TV1JD472J	J 4.7k	1/10W Metal Oxide	AA
R471	VRS-TV1JD181J	J 180	1/10W Metal Oxide	AA
R472	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA

MISCELLANEOUS PARTS

J301	QJAKF0021CEZZ	J Jack, Video 1 Audio In	AF
J302	QJAKF0021CEZZ	J Jack, Video 2 Audio In	AF
J303	QJAKF0021CEZZ	J Jack, Audio Monitor Out	AF
J304	QJAKE0043GEZZ	J Jack, RGB Audio In	AD

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RUNTK0510CEZZ

INPUT UNIT (Continued)

AJ401	QSOC0435CEZZ	J Socket, S-Video	AF
J402	QSOC0435CEZZ	J Socket, S-Video	AF
AJ403	QTANZ0704CEZZ	J BNC Connector x7	AX
SC401	QSOCZ1069GEZZ	J Socket 10-pin (TB)	AD
SC402	QSOCZ1269GEZZ	J Socket 12-pin (TA)	AD
SC403	QSOCZ1019CEZZ	J Socket 10-pin (TC)	AC
SC404	QSOCZ0519CEZZ	J Socket 5-pin (TD)	AC
	QCNW-4414CEZZ	J Connecting Cord (K2)	AE

Ref. No.	Part No.	Description	Code
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RUNTK0513CEZZ

AUDIO AMP/LED UNIT

INTEGRATED CIRCUITS

IC304	VHITDA7056A-1	J TDA7056A	AP
IC2102	VHINJM3415M-1	J NJM3415	AT

TRANSISTORS

Q307	VS2SC2412KQ-1	J 2SC2412	AA
Q2151	VS2SC2412KQ-1	J 2SC2412	AA
Q2153	VS2SC2412KQ-1	J 2SC2412	AA
Q2154	VS2SA1037KQ-1	J 2SA1037	AA
Q2155	VS2SC2412KQ-1	J 2SC2412	AA
Q2156	VS2SC3518K/3E	J 2SC3518	AE

DIODES

D2151	RH-EX0251CEZZ	J Zener Diode	AB
D2153	RH-PX0175CEZZ	J LED, Temp. Ind.	AB
D2154	RH-PX0267CEZZ	J LED, Lamp Ind.	AB
D2155	RH-PX0267CEZZ	J LED, Power Ind.	AB
D2156	VHDMA152WK/-1	J Diode, MA152WK	AA
D2157	VHDMA152WK/-1	J Diode, MA152WK	AA
D2158	RH-EX0676CEZZ	J Zener Diode	AD

CAPACITORS

C320	VCEAGA1CW106M	J 10 16V Electrolytic	AA
C321	VCEAGA1CW106M	J 10 16V Electrolytic	AA
C332	VCKYTV1HB103K	J 0.01 50V Ceramic	AA
C333	VCEAGA1CW477M	J 470 16V Electrolytic	AC
C334	VCCCTV1HH471J	J 470p 50V Ceramic	AA
C335	VCKYTV1EF104Z	J 0.1 25V Ceramic	AB
C336	VCEAGA1CW106M	J 10 16V Electrolytic	AA
C337	VCFYFA1HA474J	J 0.47 50V Mylar	AC
C2151	VCEAGA1CW227M	J 220 16V Electrolytic	AC
C2153	VCEAGA1CW226M	J 22 16V Electrolytic	AB
C2154	VCEAGA1CW226M	J 22 16V Electrolytic	AB
C2155	VCEAGA1CW227M	J 220 16V Electrolytic	AC
C2156	VCEAGA1CW337M	J 330 16V Electrolytic	AC
C2157	VCEAGA0JW107M	J 100 6.3V Electrolytic	AB
C2158	VCEAGA1CW107M	J 100 16V Electrolytic	AB
C2159	VCKYTV1EF104Z	J 0.1 25V Ceramic	AB
C2160	VCEAGA1CW226M	J 22 16V Electrolytic	AB

RESISTORS

R343	VRS-TV1JD822J	J 8.2k 1/10W Metal Oxide	AA
R344	VRS-TV1JD473J	J 47k 1/10W Metal Oxide	AA
R345	VRS-TV1JD103J	J 10k 1/10W Metal Oxide	AA
R346	VRS-TX2HF1R0J	J 1 1/2W Metal Oxide	AA
R348	VRS-TV1JD102J	J 1k 1/10W Metal Oxide	AA
R349	VRS-TX2HF8R2J	J 8.2 1/2W Metal Oxide	AA
R350	VRS-TV1JD102J	J 1k 1/10W Metal Oxide	AA
R351	VRS-TV1JD182J	J 1.8k 1/10W Metal Oxide	AA
R352	VRS-TV1JD123J	J 12k 1/10W Metal Oxide	AA
R353	VRS-TV1JD000J	J 0 1/10W Metal Oxide	AA
R2151	VRS-VV3LB150J	J 15 3W Metal Oxide	AB
R2152	VRS-TV1JD103J	J 10k 1/10W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
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RUNTK0513CEZZ**AUDIO AMP/LED UNIT (Continued)**

R2153	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2157	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2158	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2159	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R2160	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R2161	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R2162	VRS-TV1JD220J	J	22 1/10W Metal Oxide	AA
R2163	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R2164	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R2165	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R2166	VRS-TV1JD393J	J	39k 1/10W Metal Oxide	AA
R2169	VRS-VV3DB560J	J	56 2W Metal Oxide	AA
R2170	VRN-TV1JD562D	J	5.6k 1/10W Metal Film	AA
R2171	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R2172	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA
R2173	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2174	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2175	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R2176	VRS-TW2ED151J	J	150 1/4W Metal Oxide	AA

MISCELLANEOUS PARTS

FB301	RBLN-0060CEZZ	J	Ferrite Bead	AC
P301	QPLGN0241CEZZ	J	Plug 2-pin (SP)	AA
P2151	QPLGN1078GEZZ	J	Plug 10-pin (LE)	AC
P2152	QPLGN0278GEZZ	J	Plug 2-pin (LL)	AA
P2153	QPLGN1178GEZZ	J	Plug 11-pin (LC)	AC
P2154	QPLGN0278GEZZ	J	Plug 2-pin (LF)	AA
P2155	QPLGN0341CEZZ	J	Plug 3-pin (FC)	AA
P2156	QPLGN0378GEZZ	J	Plug 3-pin (FS)	AB
RMC2151	RRMCU0196CEZZ	J	Remote Control Receiver	AM
S2151	QSW-P0577CEZZ	J	Power Switch	AE
	LHLDW1077GEZZ	J	Wire Holder, x2 used	AA
	LHLDZ1814CEZZ	J	LED Holder	AD
	QCNW-4417CEZZ	J	Connecting Cord (K1)	AD

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RUNTK0515CEZZ**Y/C SEPARATOR UNIT****INTEGRATED CIRCUITS**

IC408	VHiNJ2233BM-1	J	NJM2233BM	AE
IC409	VHiNJ2233BM-1	J	NJM2233BM	AE
IC4001	VHiCXA1686M-1	J	CXA1686M	AT
IC4002	VHiPQ05TZ1U-1	J	PQ05TZ1U	AL
IC4003	VHiMC141625-1	J	MC141625AFU	BA

TRANSISTORS

Q420	VS2SC2412KQ-1	J	2SC2412K	AA
Q422	VSDTC144EK/-1	J	DTC144EK	AB
Q4001	VS2SC2412KQ-1	J	2SC2412K	AA
Q4002	VS2SC2412KQ-1	J	2SC2412K	AA
Q4003	VS2SC2412KQ-1	J	2SC2412K	AA
Q4004	VS2SC2412KQ-1	J	2SC2412K	AA
Q4005	VS2SC2412KQ-1	J	2SC2412K	AA
Q4006	VS2SC2412KQ-1	J	2SC2412K	AA
Q4007	VS2SC2412KQ-1	J	2SC2412K	AA
Q4008	VS2SC2412KQ-1	J	2SC2412K	AA
Q4009	VS2SC2412KQ-1	J	2SC2412K	AA
Q4011	VS2SC2412KQ-1	J	2SC2412K	AA
Q4012	VS2SA1037KQ-1	J	2SA1037K	AA
Q4013	VS2SC2412KQ-1	J	2SC2412K	AA
Q4014	VS2SC2412KQ-1	J	2SC2412K	AA
Q4015	VS2SC2412KQ-1	J	2SC2412K	AA
Q4017	VS2SC2412KQ-1	J	2SC2412K	AA

DIODES

D4001	VHDMA152WK/-1	J	Diode MA152WK	AA
D4002	VHDMA153///-1	J	Diode MA153	AB

PACKAGED CIRCUITS

X4001	RCRSB0216CEZZ	J	Crystal, 14.3 MHz	AH
X4002	RCRSB0089GEZZ	J	Crystal, 17.7 MHz	AG

COIL AND TRANSFORMERS

CF402	RFILC0286CEZZ	J	Ceramic Filter	AE
FL4001	RCILC0274CEZZ	J	Low Pass Filter	AM
FL4002	RFILN0050CEZZ	J	Filter	AB
FL4003	RCILC0274CEZZ	J	Low Pass Filter	AM
FL4004	RFILA0007CEZZ	J	Ceramic Filter	AE
L4001	VP-1M180K2R5N	J	Peaking 18μH	AC
L4002	VP-1M270K3R8N	J	Peaking 27μH	AC
L4003	RCILP0175TAZZ	J	Choke Coil	AE
L4005	VP-1M330K4R2N	J	Peaking 33μH	AC
T403	RCILIO512CEZZ	J	PAL Chroma Trap Coil	AE
T404	RCILIO520CEZZ	J	SECAM Chroma Trap Coil	AE

CONTROLS

R4026	RVR-M7994TAZZ	J	330k	AB
R4042	RVR-M7997TAZZ	J	1k	AC

Ref. No.	Part No.	★	Description	Code
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RUNTK0515CEZZ

Y/C SEPARATOR UNIT (Continued)

CAPACITORS

C436	VCEAGA1CW106M	J 10	16V	Electrolytic	AA
C437	VCKYTV1HB103K	J 0.01	50V	Ceramic	AA
C438	VCEAGA1CW106M	J 10	16V	Electrolytic	AA
C444	VCEAGA1CW106M	J 10	16V	Electrolytic	AA
C445	VCKYTV1EB103K	J 0.01	25V	Ceramic	AC
C447	VCCCTV1HH470J	J 47p	50V	Ceramic	AA
C450	VCKYTV1HB103K	J 0.01	50V	Ceramic	AA
C451	VCKYTV1HB103K	J 0.01	50V	Ceramic	AA
C457	VCKYTV1HB103K	J 0.01	50V	Ceramic	AA
C4001	VCEAGA1CW107M	J 100	16V	Electrolytic	AB
C4002	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4003	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4004	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4005	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4006	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4007	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4008	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4009	VCKYTV1HB103K	J 0.01	50V	Ceramic	AA
C4010	VCKYTV1HB102K	J 1000p	50V	Ceramic	AA
C4011	VCQYTA1HM473J	J 0.047	50V	Mylar	AA
C4012	VCEAGA1HW225M	J 2.2	50V	Electrolytic	AB
C4013	VCCCTV1HH120J	J 12p	50V	Ceramic	AA
C4014	VCCCTV1HH120J	J 12p	50V	Ceramic	AA
C4015	VCKYTV1HB103K	J 0.01	50V	Ceramic	AA
C4016	VCKYTV1HB102K	J 1000p	50V	Ceramic	AA
C4017	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4018	VCQYTA1HM473J	J 0.047	50V	Mylar	AA
C4019	VCQYTA1HM104J	J 0.1	50V	Mylar	AA
C4020	VCKYTV1HB472K	J 4700p	50V	Ceramic	AA
C4021	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4022	VCCCTV1HH150J	J 15p	50V	Ceramic	AA
C4023	VCCCTV1HH470J	J 47p	50V	Ceramic	AA
C4024	VCCCTV1HH101J	J 100p	50V	Ceramic	AA
C4025	VCCCTV1HH101J	J 100p	50V	Ceramic	AA
C4026	RTO-H1039GEZZ	J	Trimmer Capacitor	AC	
C4027	RTO-H1039GEZZ	J	Trimmer Capacitor	AC	
C4028	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4029	VCCCTV1HH220J	J 22p	50V	Ceramic	AA
C4033	VCEAGA1HW105M	J 1	50V	Electrolytic	AC
C4034	VCEAGA1CW107M	J 100	16V	Electrolytic	AB
C4035	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4036	VCEAGA1AW476M	J 47	10V	Electrolytic	AA
C4037	VCKYTV1HB103K	J 0.01	50V	Ceramic	AA
C4038	VCEAGA1CW476M	J 47	16V	Electrolytic	AB
C4039	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4040	VCEAGA1CW106M	J 10	16V	Electrolytic	AA
C4041	VCCCTV1HH270J	J 27p	50V	Ceramic	AA
C4042	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4043	VCEAGA1AW476M	J 47	10V	Electrolytic	AA
C4044	VCCCTV1HH270J	J 27p	50V	Ceramic	AA
C4045	VCCCTV1HH270J	J 27p	50V	Ceramic	AA
C4046	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB

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C4047	VCEAGA1AW476M	J 47	10V	Electrolytic	AA
C4048	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4049	VCEAGA1CW106M	J 10	16V	Electrolytic	AA
C4050	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4051	VCEAGA1CW106M	J 10	16V	Electrolytic	AA
C4052	VCKYTV1HF473Z	J 0.047	50V	Ceramic	AB
C4053	VCKYTV1HF104Z	J 0.1	50V	Ceramic	AA
C4054	VCEAGA1AW476M	J 47	10V	Electrolytic	AA
C4055	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4070	VCEAGA1HW225M	J 2.2	50V	Electrolytic	AB
C4072	VCKYTV1EF104Z	J 0.1	25V	Ceramic	AB
C4073	VCEAGA1CW107M	J 100	16V	Electrolytic	AB
C4076	VCKYTV1HB103K	J 0.01	50V	Ceramic	AA
C4077	VCEAGA1HW105M	J 1	50V	Electrolytic	AC
C4078	VCKYTV1HB103K	J 0.01	50V	Ceramic	AA
C4079	VCKYTV1HF104Z	J 0.1	50V	Ceramic	AA
C4080	VCEAGA1CW107M	J 100	16V	Electrolytic	AB
C4085	VCCCTV1HH120J	J 12p	50V	Ceramic	AA
C4086	VCQYTA1HM104J	J 0.1	50V	Mylar	AA
C4087	VCCCTV1HH330J	J 33p	50V	Ceramic	AA
C4088	VCCCTV1HH390J	J 39p	50V	Ceramic	AA
C4089	VCQYTA1HM104J	J 0.1	50V	Mylar	AA
C4090	VCQYTA1HM104J	J 0.1	50V	Mylar	AA

RESISTORS

R475	VRS-TV1JD102J	J 1k	1/10W	Metal Oxide	AA
R476	VRS-TV1JD102J	J 1k	1/10W	Metal Oxide	AA
R478	VRS-TV1JD821J	J 820	1/10W	Metal Oxide	AA
R479	VRS-TV1JD102J	J 1k	1/10W	Metal Oxide	AA
R480	VRS-TV1JD221J	J 220	1/10W	Metal Oxide	AA
R481	VRS-TV1JD471J	J 470	1/10W	Metal Oxide	AA
R482	VRS-TV1JD101J	J 100	1/10W	Metal Oxide	AA
R483	VRS-TV1JD151J	J 150	1/10W	Metal Oxide	AA
R484	VRS-TV1JD271J	J 270	1/10W	Metal Oxide	AA
R485	VRS-TV1JD223J	J 22k	1/10W	Metal Oxide	AA
R487	VRS-TV1JD182J	J 1.8k	1/10W	Metal Oxide	AA
R4001	VRS-TV1JD103J	J 10k	1/10W	Metal Oxide	AA
R4002	VRS-TV1JD103J	J 10k	1/10W	Metal Oxide	AA
R4003	VRS-TV1JD822J	J 8.2k	1/10W	Metal Oxide	AA
R4004	VRS-TV1JD471J	J 470	1/10W	Metal Oxide	AA
R4005	VRS-TV1JD682J	J 6.8k	1/10W	Metal Oxide	AA
R4006	VRS-TV1JD102J	J 1k	1/10W	Metal Oxide	AA
R4007	VRS-TV1JD103J	J 10k	1/10W	Metal Oxide	AA
R4008	VRS-TV1JD103J	J 10k	1/10W	Metal Oxide	AA
R4009	VRS-TV1JD182J	J 1.8k	1/10W	Metal Oxide	AA
R4010	VRS-TV1JD102J	J 1k	1/10W	Metal Oxide	AA
R4011	VRS-TV1JD102J	J 1k	1/10W	Metal Oxide	AA
R4012	VRS-TV1JD471J	J 470	1/10W	Metal Oxide	AA
R4013	VRS-TV1JD102J	J 1k	1/10W	Metal Oxide	AA
R4014	VRS-TV1JD472J	J 4.7k	1/10W	Metal Oxide	AA
R4015	VRS-TV1JD102J	J 1k	1/10W	Metal Oxide	AA
R4016	VRS-TV1JD101J	J 100	1/10W	Metal Oxide	AA
R4017	VRS-TV1JD224J	J 220k	1/10W	Metal Oxide	AA
R4018	VRS-TV1JD222J	J 2.2k	1/10W	Metal Oxide	AA
R4019	VRS-TV1JD221J	J 220	1/10W	Metal Oxide	AA
R4020	VRS-TV1JD103J	J 10k	1/10W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
RUNTK0515CEZZ									
Y/C SEPARATOR UNIT (Continued)									
R4021	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA					
R4022	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA					
R4023	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA					
R4024	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA					
R4025	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA					
R4026	<i>See Controls</i>								
R4027	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA					
R4028	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA					
R4029	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA					
R4030	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA					
R4031	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA					
R4032	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA					
R4033	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA					
R4034	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA					
R4035	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA					
R4036	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA					
R4037	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA					
R4038	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA					
R4039	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA					
R4040	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA					
R4041	VRS-TV1JD182J	J	1.8k 1/10W Metal Oxide	AA					
R4042	<i>See Controls</i>								
R4043	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA					
R4044	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA					
R4045	VRS-TV1JD151J	J	150 1/10W Metal Oxide	AA					
R4046	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA					
R4047	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA					
R4048	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA					
R4049	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA					
R4050	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA					
R4051	VRS-TV1JD684J	J	680k 1/10W Metal Oxide	AA					
R4061	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA					
R4062	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA					
R4063	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA					
R4065	VRS-TV1JD221J	J	220 1/10W Metal Oxide	AA					
R4066	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA					
R4099	VRS-TV1JD270J	J	27 1/10W Metal Oxide	AA					

MISCELLANEOUS PARTS

TP1	QPLGN0380GEZZ	J	Plug 3-pin	AB
TP401	QLUGP0110TAFW	J	Lug, Test Point	AA
TP4004	QLUGP0110TAFW	J	Lug, Test Point	AA
TP4005	QLUGP0110TAFW	J	Lug, Test Point	AA
P404	QPLGZ0516CEZZ	J	Plug 5-pin (TD)	AC
P403	QPLGZ1016CEZZ	J	Plug 10-pin (TC)	AD
FB4001	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4002	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4003	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4004	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4005	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4006	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB4007	RBLN-0063CEZZ	J	Ferrite Bead	AC
	LHLDF1124CEZZ	J	PWB Holder, X3 used	AD

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RDENC0176CEZZ

POWER UNIT

INTEGRATED CIRCUITS

△ IC701	9FJ0F09010030	J	MA2820	AU
△ IC702	9FJ0F09010030	J	MA2820	AU
IC703	9FJ0F01110492	J	PQ05RH1	AN
IC704	9FJ0F01110285	J	TA76431S	AG
IC705	9FJ0F01110285	J	TA76431S	AG

TRANSISTORS

TR702	9FJ0Q02001071	J	2SC2785	AD
TR703	9FJ0Q02001071	J	2SC2785	AD
TR706	9FJ0Q00010180	J	2SA1567	AL
TR707	9FJ0Q02001071	J	2SC2785	AD
TR708	9FJ0Q02001071	J	2SC2785	AD
TR709	9FJ0Q02001071	J	2SC2785	AD

DIODES

D701	9FJ0D00000085	J	Diode	AC
D702	9FJ0D00000085	J	Diode	AC
D703	9FJ0D00000085	J	Diode	AC
D704	9FJ0D01001515	J	Diode	AD
D705	9FJ0D04001020	J	Diode	AH
D706	9FJ0D23010022	J	Diode	AH
D707	9FJ0D23010022	J	Diode	AH
D708	9FJ0D02010000	J	Diode	AF
D709	9FJ0D01001515	J	Diode	AD
D710	9FJ0D00000085	J	Diode	AC
D711	9FJ0D00000085	J	Diode	AC
D712	9FJ0D00000085	J	Diode	AC
D713	9FJ0D01001515	J	Diode	AD
△ DB701	9FJ0D14010070	J	Bridge Diode D10XB60	AN
△ ZD701	9FJ0D31181625	J	Zener Diode RD10JS	AD
ZD702	9FJ0D31181655	J	Zener Diode RD15JS	AD
ZD703	9FJ0D31110125	J	Zener Diode RD5.1JS	AD
ZD704	9FJ0D31110125	J	Zener Diode RD5.1JS	AD

PACKAGED CIRCUITS

△ NR701	9FJ0F20010090	J	ZNR Transient/ Surge Absorbers, ERZV14D331	AG
△ PC701	9FJ0F10010931	J	Photo Coupler TLP721	AG
△ PC702	9FJ0F10010931	J	Photo Coupler TLP721	AG
PC703	9FJ0F10010670	J	Photo Coupler TLP621	AG
△ PC704	9FJ0F10010931	J	Photo Coupler TLP721	AG
△ PC705	9FJ0F10010460	J	Photo Triac Coupler S21ME3	AM

COIL AND TRANSFORMERS

△ L701	9FJ0L05010100	J	Inductor 8.2mH	AU
L703	9FJ0L08001440	J	Inductor 5.6μH	AG
L704	9FJ0L08001440	J	Inductor 5.6μH	AG

Ref. No.	Part No.	★	Description	Code
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L705	9FJ0L08001440	J	Inductor 5.6μH	AG
L706	9FJ0L08001440	J	Inductor 5.6μH	AG
L707	9FJ0L08010145	J	Inductor 8.2μH	AD
L708	9FJ0L08010150	J	Inductor CM05RB02	AK
△ T701	9FJ0L00010100	J	Trans. 050100	AR
△ T702	9FJ0L00010110	J	Trans. 050101	AR

CONTROLS

VR701	9FJ0R60001245	J	500 6.5V Adj.	AE
VR702	9FJ0R60001255	J	1k 13V Adj.	AE

CAPACITORS

△ C701	9FJ0C34010663	J	0.47 250V M. Polyester	AK
△ C702	9FJ0C34010663	J	0.47 250V M. Polyester	AK
C703	9FJ0C51000020	J	2200p 250V Ceramic	AE
C704	9FJ0C51000020	J	2200p 250V Ceramic	AE
C705	9FJ0C51000020	J	2200p 250V Ceramic	AE
△ C706	9FJ0C02810593	J	470 400V Electrolytic	AY
△ C707	9FJ0C02810593	J	470 400V Electrolytic	AY
C709	9FJ0C32410080	J	0.022 400V M. Polyester	AE
C710	9FJ0C12001305	J	0.022 50V Polyester Film	AD
C711	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C712	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C713	9FJ0C32410080	J	0.022 400V M. Polyester	AE
C714	9FJ0C12001305	J	0.022 50V Polyester Film	AD
C715	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C716	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C717	9FJ0C01402025	J	470 35V Electrolytic	AG
C718	9FJ0C12001005	J	1000p 50V Polyester Film	AD
C719	9FJ0C01401675	J	330 35V Electrolytic	AF
C720	9FJ0C50011295	J	0.01 250V Ceramic	AE
C721	9FJ0C50011295	J	0.01 250V Ceramic	AE
C722	9FJ0C01110135	J	3300 10V Electrolytic	AE
C723	9FJ0C01410113	J	1000 35V Electrolytic	AK
C724	9FJ0C01401595	J	220 35V Electrolytic	AF
C725	9FJ0C01202325	J	220 16V Electrolytic	AE
C726	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C727	9FJ0C01202325	J	220 16V Electrolytic	AE
C728	9FJ0C50002185	J	0.1 50V Polyester Film	AD
C729	9FJ0C50002185	J	0.1 50V Polyester Film	AD
C730	9FJ0C50002185	J	0.1 50V Polyester Film	AD
C731	9FJ0C01510525	J	47 50V Electrolytic	AD
C732	9FJ0C50011295	J	0.01 250V Ceramic	AE
C733	9FJ0C01410113	J	1000 35V Electrolytic	AK
C734	9FJ0C01401985	J	100 35V Electrolytic	AE
C735	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C736	9FJ0C01401595	J	220 35V Electrolytic	AF
C737	9FJ0C50002185	J	0.1 50V Polyester Film	AD
C738	9FJ0C50002185	J	0.1 50V Polyester Film	AD
C739	9FJ0C01402025	J	470 35V Electrolytic	AG
C740	9FJ0C01510515	J	220 50V Electrolytic	AF
C741	9FJ0C01401985	J	100 35V Electrolytic	AE
C742	9FJ0C01510525	J	47 50V Electrolytic	AD
△ C743	9FJ0C51000020	J	2200p 250V Ceramic	AE

Ref. No.	Part No.	★	Description	Code
RDENC0176CEZZ				
POWER UNIT (Continued)				
△ C744	9FJ0C51000020	J	2200p 250V Ceramic	AE
C745	9FJ0C01401985	J	100 35V Electrolytic	AE
C746	9FJ0C50010760	J	470p 1kV Ceramic	AE
C747	9FJ0C50010760	J	470p 1kV Ceramic	AE
C749	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C750	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C751	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C752	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C753	9FJ0C32310130	J	0.047 250V M. Polyester	AE
C754	9FJ0C51000020	J	2200p 250V Ceramic	AE
C755	9FJ0C51000020	J	2200p 250V Ceramic	AE
C756	9FJ0C50011295	J	0.01 250V Ceramic	AE
C757	9FJ0C50011295	J	0.01 250V Ceramic	AE
C758	9FJ0C50011295	J	0.01 250V Ceramic	AE
C760	9FJ0C01510535	J	1 50V Electrolytic	AD

RESISTORS

△ R701	9FJ0R11002045	J	220k 1W Special	AD
R702	9FJ0R22110310	J	10 5W Cement	AG
R703	9FJ0R70000034	J	10 5W 130°C Cement	AK
△ R704	9FJ0R12002061	J	330k 2W Special	AD
△ R705	9FJ0R12002061	J	330k 2W Special	AD
R706	9FJ0R00101135	J	4.7k 1/6W Carbon	AB
R707	9FJ0R00101135	J	4.7k 1/6W Carbon	AB
R708	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R709	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R710	9FJ0R02103645	J	560k 1/2W Carbon	AC
R711	9FJ0R02103645	J	560k 1/2W Carbon	AC
R712	9FJ0R17070731	J	100 2W Metal Oxide	AD
R713	9FJ0R16080555	J	18 1W Metal Oxide	AD
R714	9FJ0R00100695	J	68 1/6W Carbon	AB
R715	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R716	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R717	9FJ0R02103645	J	560k 1/2W Carbon	AC
R718	9FJ0R02103645	J	560k 1/2W Carbon	AC
R719	9FJ0R16010035	J	82k 1W Metal Oxide	AC
R720	9FJ0R16010035	J	82k 1W Metal Oxide	AC
R721	9FJ0R17070651	J	47 2W Metal Oxide	AD
R722	9FJ0R16080615	J	33 1W Metal Oxide	AD
R724	9FJ0R02103565	J	120k 1/2W Carbon	AC
R725	9FJ0R02103565	J	120k 1/2W Carbon	AC
R727	9FJ0R00100935	J	680 1/4W Carbon	AB
R728	9FJ0R02103335	J	1.5k 1/2W Carbon	AC
R729	9FJ0R00101215	J	10k 1/6W Carbon	AB
R730	9FJ0R02103315	J	1k 1/2W Carbon	AC
R732	9FJ0R00101135	J	4.7k 1/6W Carbon	AB
R733	9FJ0R00101075	J	2.7k 1/6W Carbon	AB
R734	9FJ0R00100895	J	470 1/6W Carbon	AB
R735	9FJ0R00100495	J	10 1/6W Carbon	AB
R736	9FJ0R00100975	J	1k 1/6W Carbon	AB
R737	9FJ0R00101055	J	2.2k 1/4W Carbon	AB
R738	9FJ0R00100815	J	220 1/6W Carbon	AB

Ref. No.	Part No.	★	Description	Code
R739	9FJ0R00101215	J	10k 1/6W Carbon	AB
R740	9FJ0R00101215	J	10k 1/6W Carbon	AB
R741	9FJ0R00101055	J	2.2k 1/6W Carbon	AB
R742	9FJ0R17070351	J	2.7 2W Metal Oxide	AD
R743	9FJ0R00101035	J	1.8k 1/4W Carbon	AB
R744	9FJ0R00101135	J	4.7k 1/6W Carbon	AB
R745	9FJ0R31110025	J	8.2M 1/2W Coat- Insulated Fixed Anti-Surge	AD
R746	9FJ0R31110025	J	8.2M 1/2W Coat- Insulated Fixed Anti-Surge	AD
R747	9FJ0R00100815	J	220 1/6W Carbon	AB
R748	9FJ0R00101215	J	10k 1/6W Carbon	AB
R749	9FJ0R00101135	J	4.7k 1/6W Carbon	AB
R750	9FJ0R00101135	J	4.7k 1/6W Carbon	AB
R751	9FJ0R17070651	J	47 2W Metal Oxide	AD
R752	9FJ0R17070651	J	47 2W Metal Oxide	AD
R754	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R755	9FJ0R17071251	J	15k 2W Metal Oxide	AD
R756	9FJ0R16080735	J	100 1W Metal Oxide	AD
R757	9FJ0R16080735	J	100 1W Metal Oxide	AD
R758	9FJ0R16080615	J	33 1W Metal Oxide	AD
R759	9FJ0R17070351	J	2.7 2W Metal Oxide	AD
R760	9FJ0R16010035	J	82k 1W Metal Oxide	AC
R761	9FJ0R00101215	J	10k 1/6W Carbon	AB
R762	9FJ0R00101215	J	10k 1/6W Carbon	AB
R763	9FJ0R00100735	J	100 1/6W Carbon	AB
R764	9FJ0R00100655	J	47 1/6W Carbon	AB
R765	9FJ0R17070251	J	1 2W Metal Oxide	AD

SWITCH

△ SW701	9FJ0H01010060	J	Main Power Switch	AP
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MISCELLANEOUS PARTS

△ F701	9FJ0E01910320	J	Fuse, T6.3A 250V	AH
F706	9FJ0F39010025	J	Circuit Protector, 0.8A	AF
△ RY701	9FJ0H11510410	J	Relay, AC120V/DC12V	AR
	9FJ0G10001750	J	Connector 3-pin (PE)	AE
	9FJ0G10011600	J	Connector 2-pin (BA)	AD
	9FJ0G10002710	J	Connector 2-pin (PC)	AD
	9FJ0G10001640	J	Connector 2-pin (PS)	AD
	9FJ0G10001750	J	Connector 3-pin (PL)	AE
	9FJ0G10011570	J	Connector 8-pin (EA)	AF
	9FJ0G10011580	J	Connector 4-pin (EF)	AE
	9FJ0G10011590	J	Connector 5-pin (Ev)	AE
	9FJ0G10003730	J	Connector 3-pin (EG)	AE

Ref. No.	Part No.	★	Description	Code
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RDENC0177CEZZ BALLAST UNIT

ASSEMBLY UNIT

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

△ SUBPC	9FJ0G00010400	J	Sub-Unit, CP-022	BA
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TRANSISTORS

△ Q1701	9FJ0Q11001442	J	2SK2057	AW
Q1702	9FJ0Q02001351	J	2SC3328Y	AG
Q1703	9FJ0Q02001071	J	2SC2785	AD

DIODES

D1702	9FJ0D01001515	J	Diode EG01Z	AD
D1703	9FJ0D26010080	J	Diode FMG36S	AL
D1704	9FJ0D01001515	J	Diode EG01Z	AD

PACKAGED CIRCUITS

△ PC1701	9FJ0F10010931	J	Photo Coupler TLP721	AG
△ PC1702	9FJ0F10010931	J	Photo Coupler TLP721	AG
△ SCR1701	9FJ0D30910020	J	SCR K1V22W	AQ

COIL AND TRANSFORMERS

△ L1701	9FJ0L08110010	J	Inductor	AR
L1704	9FJ0L08001430	J	Inductor	AF
△ L1707	9FJ0L05010510	J	Inductor 15mH	AU
△ T1701	9FJ0L01501000	J	Trans. 150100	AN
△ T1702	9FJ0B00010080	J	Igunaiter SMI-SZ-01B	BQ

CAPACITORS

C1701	9FJ0C50010760	J	470p 2kV Ceramic	AE
C1702	9FJ0C12001035	J	0.1 50V Polyester Film	AD
C1703	9FJ0C32410040	J	2.2 400V M. Polyester	AN
C1704	9FJ0C32401070	J	0.1 400V M. Polyester	AF
C1706	9FJ0C50010760	J	470p 2kV Ceramic	AE
C1707	9FJ0C02801413	J	220 400V Electrolytic	AV
△ C1711	9FJ0C51000020	J	2200p 250V Ceramic	AE
△ C1712	9FJ0C51000020	J	2200p 250V Ceramic	AE
C1713	9FJ0C32410080	J	0.022 400V M. Polyester	AE
C1714	9FJ0C32410080	J	0.022 400V M. Polyester	AE
△ C1715	9FJ0C32410070	J	0.1 400V M. Polyester	AF
C1751	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C1800	9FJ0C50002185	J	0.1 50V Polyester Film	AD
C1801	9FJ0C50002185	J	0.1 50V Polyester Film	AD
C1802	9FJ0C50010725	J	1000p 1kV Ceramic	AD

RESISTORS

R1701	9FJ0R22001250	J	0.33 5W Cement	AF
R1702	9FJ0R17070571	J	22 2W Metal Oxide	AD

Ref. No.	Part No.	★	Description	Code
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R1703	9FJ0R11002055	J	270k 1W Special	AD
R1704	9FJ0R11002045	J	220k 1W Special	AD
R1705	9FJ0R22104184	J	12k 5W Cement	AG
R1706	9FJ0R15080655	J	47 1/2W Metal Oxide	AC
R1707	9FJ0R17070841	J	300 2W Metal Oxide	AD
R1708	9FJ0R17070841	J	300 2W Metal Oxide	AD
R1709	9FJ0R00100615	J	33 1/6W Carbon	AB
R1710	9FJ0R00101335	J	33k 1/6W Carbon	AB
△ R1711	9FJ0R22110044	J	0.18 5W Cement	AF
△ R1712	9FJ0R22110044	J	0.18 5W Cement	AF
△ R1713	9FJ0R12002061	J	330k 2W Coat-Insulated	AD
			High Megohm Fixed Resistor	
R1715	9FJ0R15080975	J	1k 1/2W Metal Oxide	AC
R1716	9FJ0R17070411	J	4.7 2W Metal Oxide	AD
R1717	9FJ0R22110320	J	1 5W Metal Oxide	AF
R1756	9FJ0R00100855	J	330 1/6W Carbon	AB

MISCELLANEOUS PARTS

TF1701	9FJ0E03010060	J	Thermal Fuse, P125A	AG
	9FJ0G10011560	J	Connector 4-pin (PL)	AE
	9FJ0G10001640	J	Connector 2-pin (PS)	AD
	9FJ0G10002140	J	Connector 3-pin (D)	AE

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
RPCi-0007CEZZ									
PC I/F UNIT									
INTEGRATED CIRCUITS									
IC8001	9DK001-10011	J	HD407A4359S	BE	Q8009	9DK001-20007	J	2SC2996	AE
IC8002	9DK001-15017	J	HA178M05	AN	Q8010	9DK001-20007	J	2SC2996	AE
IC8003	9DK001-15019	J	HA17808UA	AL	Q8011	9DK001-20007	J	2SC2996	AE
IC8004	9DK001-15018	J	HA179L05U	AM	Q8012	9DK001-20007	J	2SC2996	AE
IC8005	9DK001-12001	J	SN74ALS1034NS	AG	Q8013	9DK001-20007	J	2SC2996	AE
IC8006	9DK001-15008	J	TL712CPS	AP	Q8014	9DK001-20007	J	2SC2996	AE
IC8007	9DK001-15008	J	TL712CPS	AP	DIODES				
IC8008	9DK001-15008	J	TL712CPS	AP	D8001	9DK001-30006	J	Diode HSM221C	AE
IC8011	9DK001-15016	J	LT1260CS	BL	D8002	9DK001-30006	J	Diode HSM221C	AE
IC8012	9DK001-12001	J	SN74ALS1034NS	AG	D8003	9DK001-30006	J	Diode HSM221C	AE
IC8016	9DK001-15004	J	MM1203	AZ	D8004	9DK001-30006	J	Diode HSM221C	AE
IC8017	9DK001-15001	J	TDA8703T	BE	D8005	9DK001-30006	J	Diode HSM221C	AE
IC8018	9DK001-15001	J	TDA8703T	BE	D8006	9DK001-30006	J	Diode HSM221C	AE
IC8019	9DK001-15001	J	TDA8703T	BE	D8007	9DK001-30006	J	Diode HSM221C	AE
IC8020	9DK001-14004	J	iX2690CE	BM	D8008	9DK001-30006	J	Diode HSM221C	AE
IC8021	9DK001-15015	J	TLC2932IPW	AX	D8009	9DK001-30006	J	Diode HSM221C	AE
IC8022	9DK001-11006	J	MSM518222-25ZS	BH	D8010	9DK001-30006	J	Diode HSM221C	AE
IC8023	9DK001-11006	J	MSM518222-25ZS	BH	D8011	9DK001-30006	J	Diode HSM221C	AE
IC8024	9DK001-11006	J	MSM518222-25ZS	BH	D8012	9DK001-30006	J	Diode HSM221C	AE
IC8025	9DK001-11006	J	MSM518222-25ZS	BH	D8013	9DK001-30006	J	Diode HSM221C	AE
IC8026	9DK001-11006	J	MSM518222-25ZS	BH	D8014	9DK001-30006	J	Diode HSM221C	AE
IC8027	9DK001-11006	J	MSM518222-25ZS	BH	D8015	9DK001-30006	J	Diode HSM221C	AE
IC8029	9DK001-14002	J	iX2145CE	BA	D8016	9DK001-30006	J	Diode HSM221C	AE
IC8030	9DK001-11007	J	HM63021FP-34	BB	D8017	9DK001-30006	J	Diode HSM221C	AE
IC8031	9DK001-11007	J	HM63021FP-34	BB	D8018	9DK001-30006	J	Diode HSM221C	AE
IC8032	9DK001-11007	J	HM63021FP-34	BB	D8019	9DK001-30006	J	Diode HSM221C	AE
IC8033	9DK001-11007	J	HM63021FP-34	BB	PACKAGED CIRCUIT				
IC8034	9DK001-11007	J	HM63021FP-34	BB	X8001	9DK001-80005	J	Crystal 25 MHz	AS
IC8035	9DK001-11007	J	HM63021FP-34	BB	COILS				
IC8036	9DK001-15020	J	HD49307	BC	FL8001	9DK001-82011	J	Filter, NFA41R00C470	AS
IC8037	9DK001-15020	J	HD49307	BC	FL8002	9DK001-82011	J	Filter, NFA41R00C470	AS
IC8038	9DK001-12016	J	74F273SJ	AU	FL8003	9DK001-82014	J	3-pin Filter	AK
IC8039	9DK001-12016	J	74F273SJ	AU	FL8010	9DK001-82012	J	3-pin Filter	AK
IC8040	9DK001-12016	J	74F273SJ	AU	FL8011	9DK001-82012	J	3-pin Filter	AK
IC8041	9DK001-12016	J	74F273SJ	AU	FL8012	9DK001-82013	J	3-pin Filter	AL
IC8042	9DK001-12016	J	74F273SJ	AU	FL8013	9DK001-82007	J	3-pin Filter	AL
IC8043	9DK001-12016	J	74F273SJ	AU	FL8014	9DK001-82007	J	3-pin Filter	AL
IC8045	9DK001-11012	J	AT24C16N-10SC	AY	FL8021	9DK001-50014	J	Resistor 75 ohm 1/4W	AA
IC8046	9DK001-12041	J	HD74HC32FP	AH	FL8022	9DK001-50014	J	Resistor 75 ohm 1/4W	AA
IC8047	9DK001-12040	J	HD74HC04FP	AH	FL8023	9DK001-82014	J	3-pin Filter	AK
IC8048	9DK001-11011	J	CY7C291A-25PC	BD	FL8024	9DK001-82011	J	Filter, NFA41R00C470	AS
IC8049	9DK001-11011	J	CY7C291A-25PC	BD	L8001	9DK001-81011	J	Inductor 470μH	AK
IC8050	9DK001-11011	J	CY7C291A-25PC	BD	L8002	9DK001-81006	J	Inductor 15μH	AF
IC8052	9DK001-15006	J	RST529CMT	AN	L8003	9DK001-81013	J	Inductor 100μH	AN
TRANSISTORS					L8004	9DK001-81014	J	Inductor 1mH	AK
Q8001	9DK001-20007	J	2SC2996	AE	CONTROLS				
Q8003	9DK001-20007	J	2SC2996	AE	R8120	9DK001-52003	J	33k(B) Contrast	AG
Q8004	9DK001-20007	J	2SC2996	AE	R8127	9DK001-52002	J	150(B) R-Level	AG
Q8005	9DK001-20007	J	2SC2996	AE	R8135	9DK001-52002	J	150(B) B-Level	AG
Q8007	9DK001-20007	J	2SC2996	AE					
Q8008	9DK001-20007	J	2SC2996	AE					

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
RPCi-0007CEZZ									
PC I/F UNIT (Continued)									
CAPACITORS									
C8001	9DK001-42004	J 0.1	25V Ceramic	AA	C8056	9DK001-42004	J 0.1	25V Ceramic	AA
C8002	9DK001-40026	J 100	16V Electrolytic	AL	C8057	9DK001-42004	J 0.1	25V Ceramic	AA
C8003	9DK001-42004	J 0.1	25V Ceramic	AA	C8058	9DK001-42004	J 0.1	25V Ceramic	AA
C8004	9DK001-40031	J 220	16V Electrolytic	AP	C8059	9DK001-42004	J 0.1	25V Ceramic	AA
C8005	9DK001-40026	J 100	16V Electrolytic	AL	C8060	9DK001-42004	J 0.1	25V Ceramic	AA
C8006	9DK001-42004	J 0.1	25V Ceramic	AA	C8061	9DK001-40034	J 330	16V Electrolytic	AK
C8007	9DK001-42004	J 0.1	25V Ceramic	AA	C8062	9DK001-42004	J 0.1	25V Ceramic	AA
C8008	9DK001-40025	J 100	6.3V Electrolytic	AH	C8063	9DK001-42004	J 0.1	25V Ceramic	AA
C8009	9DK001-40026	J 100	16V Electrolytic	AL	C8064	9DK001-40031	J 220	16V Electrolytic	AP
C8010	9DK001-42004	J 0.1	25V Ceramic	AA	C8065	9DK001-40034	J 330	16V Electrolytic	AK
C8011	9DK001-42004	J 0.1	25V Ceramic	AA	C8066	9DK001-42031	J 56p	50V Ceramic	AC
C8012	9DK001-40025	J 100	6.3V Electrolytic	AH	C8067	9DK001-42004	J 0.1	25V Ceramic	AA
C8013	9DK001-40026	J 100	16V Electrolytic	AL	C8068	9DK001-42004	J 0.1	25V Ceramic	AA
C8014	9DK001-42004	J 0.1	25V Ceramic	AA	C8069	9DK001-40034	J 330	16V Electrolytic	AK
C8015	9DK001-42004	J 0.1	25V Ceramic	AA	C8070	9DK001-42031	J 56p	50V Ceramic	AC
C8016	9DK001-40029	J 22	16V Electrolytic	AC	C8071	9DK001-42004	J 0.1	25V Ceramic	AA
C8017	9DK001-42004	J 0.1	25V Ceramic	AA	C8072	9DK001-42031	J 56p	50V Ceramic	AC
C8018	9DK001-42004	J 0.1	25V Ceramic	AA	C8073	9DK001-42004	J 0.1	25V Ceramic	AA
C8019	9DK001-42004	J 0.1	25V Ceramic	AA	C8074	9DK001-40023	J 10	16V Electrolytic	AG
C8020	9DK001-42004	J 0.1	25V Ceramic	AA	C8075	9DK001-42002	J 47p	50V Ceramic	AA
C8021	9DK001-42004	J 0.1	25V Ceramic	AA	C8076	9DK001-40030	J 4.7	50V Electrolytic	AG
C8023	9DK001-42004	J 0.1	25V Ceramic	AA	C8077	9DK001-42004	J 0.1	25V Ceramic	AA
C8024	9DK001-42004	J 0.1	25V Ceramic	AA	C8078	9DK001-40030	J 4.7	50V Electrolytic	AG
C8025	9DK001-42004	J 0.1	25V Ceramic	AA	C8079	9DK001-42004	J 0.1	25V Ceramic	AA
C8026	9DK001-42004	J 0.1	25V Ceramic	AA	C8080	9DK001-40028	J 22	6.3V Electrolytic	AG
C8027	9DK001-42004	J 0.1	25V Ceramic	AA	C8081	9DK001-42004	J 0.1	25V Ceramic	AA
C8028	9DK001-42004	J 0.1	25V Ceramic	AA	C8082	9DK001-40030	J 4.7	50V Electrolytic	AG
C8029	9DK001-42004	J 0.1	25V Ceramic	AA	C8083	9DK001-42004	J 0.1	25V Ceramic	AA
C8032	9DK001-40024	J 10	50V Electrolytic	AH	C8084	9DK001-42004	J 0.1	25V Ceramic	AA
C8033	9DK001-42004	J 0.1	25V Ceramic	AA	C8085	9DK001-40028	J 22	6.3V Electrolytic	AG
C8034	9DK001-40024	J 10	50V Electrolytic	AH	C8086	9DK001-42002	J 47p	50V Ceramic	AA
C8035	9DK001-42004	J 0.1	25V Ceramic	AA	C8087	9DK001-40030	J 4.7	50V Electrolytic	AG
C8036	9DK001-40024	J 10	50V Electrolytic	AH	C8088	9DK001-42004	J 0.1	25V Ceramic	AA
C8037	9DK001-42004	J 0.1	25V Ceramic	AA	C8089	9DK001-40030	J 4.7	50V Electrolytic	AG
C8038	9DK001-42002	J 47p	50V Ceramic	AA	C8090	9DK001-42004	J 0.1	25V Ceramic	AA
C8039	9DK001-42002	J 47p	50V Ceramic	AA	C8091	9DK001-42004	J 0.1	25V Ceramic	AA
C8040	9DK001-42002	J 47p	50V Ceramic	AA	C8092	9DK001-40030	J 4.7	50V Electrolytic	AG
C8041	9DK001-42004	J 0.1	25V Ceramic	AA	C8093	9DK001-42004	J 0.1	25V Ceramic	AA
C8042	9DK001-42004	J 0.1	25V Ceramic	AA	C8094	9DK001-42004	J 0.1	25V Ceramic	AA
C8043	9DK001-42004	J 0.1	25V Ceramic	AA	C8095	9DK001-42002	J 47p	50V Ceramic	AA
C8044	9DK001-42004	J 0.1	25V Ceramic	AA	C8096	9DK001-40030	J 4.7	50V Electrolytic	AG
C8045	9DK001-42004	J 0.1	25V Ceramic	AA	C8097	9DK001-42004	J 0.1	25V Ceramic	AA
C8046	9DK001-42004	J 0.1	25V Ceramic	AA	C8098	9DK001-40030	J 4.7	50V Electrolytic	AG
C8047	9DK001-42004	J 0.1	25V Ceramic	AA	C8099	9DK001-42004	J 0.1	25V Ceramic	AA
C8048	9DK001-42004	J 0.1	25V Ceramic	AA	C8100	9DK001-42004	J 0.1	25V Ceramic	AA
C8049	9DK001-40024	J 10	50V Electrolytic	AH	C8101	9DK001-40030	J 4.7	50V Electrolytic	AG
C8050	9DK001-40024	J 10	50V Electrolytic	AH	C8102	9DK001-42004	J 0.1	25V Ceramic	AA
C8051	9DK001-40024	J 10	50V Electrolytic	AH	C8103	9DK001-42004	J 0.1	25V Ceramic	AA
C8052	9DK001-40023	J 10	16V Electrolytic	AG	C8104	9DK001-42010	J 30p	50V Ceramic	AC
C8053	9DK001-40034	J 330	16V Electrolytic	AK	C8105	9DK001-42010	J 30p	50V Ceramic	AC
C8054	9DK001-42004	J 0.1	25V Ceramic	AA	C8106	9DK001-42004	J 0.1	25V Ceramic	AA
C8055	9DK001-42004	J 0.1	25V Ceramic	AA	C8107	9DK001-42004	J 0.1	25V Ceramic	AA
					C8108	9DK001-42004	J 0.1	25V Ceramic	AA
					C8109	9DK001-42004	J 0.1	25V Ceramic	AA
					C8110	9DK001-42004	J 0.1	25V Ceramic	AA
					C8111	9DK001-42004	J 0.1	25V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
RPCi-0007CEZZ				
PC I/F UNIT (Continued)				
C8112	9DK001-42004	J 0.1	25V Ceramic	AA
C8113	9DK001-42004	J 0.1	25V Ceramic	AA
C8114	9DK001-42004	J 0.1	25V Ceramic	AA
C8115	9DK001-42004	J 0.1	25V Ceramic	AA
C8117	9DK001-42003	J 1	Tantalum	AB
C8118	9DK001-42004	J 0.1	25V Ceramic	AA
C8120	9DK001-42004	J 0.1	25V Ceramic	AA
C8121	9DK001-42004	J 0.1	25V Ceramic	AA
C8122	9DK001-42004	J 0.1	25V Ceramic	AA
C8123	9DK001-42004	J 0.1	25V Ceramic	AA
C8124	9DK001-42004	J 0.1	25V Ceramic	AA
C8125	9DK001-42004	J 0.1	25V Ceramic	AA
C8126	9DK001-42004	J 0.1	25V Ceramic	AA
C8127	9DK001-40025	J 100	6.3V Electrolytic	AH
C8128	9DK001-42004	J 0.1	25V Ceramic	AA
C8132	9DK001-42004	J 0.1	25V Ceramic	AA
C8133	9DK001-42004	J 0.1	25V Ceramic	AA
C8134	9DK001-42004	J 0.1	25V Ceramic	AA
C8135	9DK001-42004	J 0.1	25V Ceramic	AA
C8136	9DK001-42004	J 0.1	25V Ceramic	AA
C8137	9DK001-42004	J 0.1	25V Ceramic	AA
C8138	9DK001-42004	J 0.1	25V Ceramic	AA
C8139	9DK001-42052	J 22p	50V Ceramic	AC
C8140	9DK001-42052	J 22p	50V Ceramic	AC
C8141	9DK001-42004	J 0.1	25V Ceramic	AA
C8142	9DK001-42004	J 0.1	25V Ceramic	AA
C8143	9DK001-42002	J 47p	50V Ceramic	AA
C8144	9DK001-42051	J 10p	50V Ceramic	AD
C8145	9DK001-42004	J 0.1	25V Ceramic	AA
C8146	9DK001-42004	J 0.1	25V Ceramic	AA
C8149	9DK001-42004	J 0.1	25V Ceramic	AA
C8154	9DK001-42004	J 0.1	25V Ceramic	AA
C8155	9DK001-42004	J 0.1	25V Ceramic	AA
C8156	9DK001-42004	J 0.1	25V Ceramic	AA
C8157	9DK001-42004	J 0.1	25V Ceramic	AA
C8158	9DK001-42004	J 0.1	25V Ceramic	AA
C8159	9DK001-42004	J 0.1	25V Ceramic	AA
C8160	9DK001-42025	J 2200p	50V Ceramic	AB
C8161	9DK001-42025	J 2200p	50V Ceramic	AB
C8162	9DK001-42025	J 2200p	50V Ceramic	AB
C8163	9DK001-42025	J 2200p	50V Ceramic	AB
C8164	9DK001-42025	J 2200p	50V Ceramic	AB
C8165	9DK001-42025	J 2200p	50V Ceramic	AB
C8166	9DK001-42025	J 2200p	50V Ceramic	AB
C8167	9DK001-42025	J 2200p	50V Ceramic	AB
C8168	9DK001-42025	J 2200p	50V Ceramic	AB
C8169	9DK001-40023	J 10	16V Electrolytic	AG
C8170	9DK001-40023	J 10	16V Electrolytic	AG
C8171	9DK001-40023	J 10	16V Electrolytic	AG
C8172	9DK001-42025	J 2200p	50V Ceramic	AB
C8173	9DK001-42025	J 2200p	50V Ceramic	AB
C8174	9DK001-42025	J 2200p	50V Ceramic	AB
C8175	9DK001-42025	J 2200p	50V Ceramic	AB

Ref. No.	Part No.	★	Description	Code
C8176	9DK001-42025	J 2200p	50V Ceramic	AB
C8177	9DK001-42025	J 2200p	50V Ceramic	AB
C8178	9DK001-42025	J 2200p	50V Ceramic	AB
C8179	9DK001-42025	J 2200p	50V Ceramic	AB
C8180	9DK001-42025	J 2200p	50V Ceramic	AB
C8181	9DK001-40023	J 10	16V Electrolytic	AG
C8182	9DK001-40023	J 10	16V Electrolytic	AG
C8183	9DK001-40023	J 10	16V Electrolytic	AG
C8184	9DK001-42004	J 0.1	25V Ceramic	AA
C8185	9DK001-42004	J 0.1	25V Ceramic	AA
C8186	9DK001-42004	J 0.1	25V Ceramic	AA
C8199	9DK001-42004	J 0.1	25V Ceramic	AA
C8200	9DK001-42004	J 0.1	25V Ceramic	AA
C8201	9DK001-42004	J 0.1	25V Ceramic	AA
C8202	9DK001-42004	J 0.1	25V Ceramic	AA
C8203	9DK001-42004	J 0.1	25V Ceramic	AA
C8204	9DK001-42004	J 0.1	25V Ceramic	AA
C8205	9DK001-42004	J 0.1	25V Ceramic	AA
C8206	9DK001-42004	J 0.1	25V Ceramic	AA
C8207	9DK001-42004	J 0.1	25V Ceramic	AA
C8208	9DK001-42004	J 0.1	25V Ceramic	AA
C8209	9DK001-42004	J 0.1	25V Ceramic	AA
C8210	9DK001-42004	J 0.1	25V Ceramic	AA
C8211	9DK001-42004	J 0.1	25V Ceramic	AA
C8212	9DK001-42004	J 0.1	25V Ceramic	AA
C8213	9DK001-40023	J 10	16V Electrolytic	AG
C8214	9DK001-40026	J 100	16V Electrolytic	AL
C8215	9DK001-42004	J 0.1	25V Ceramic	AA
C8216	9DK001-42051	J 10p	50V Ceramic	AD
C8217	9DK001-42051	J 10p	50V Ceramic	AD
C8218	9DK001-42051	J 10p	50V Ceramic	AD
C8219	9DK001-42051	J 10p	50V Ceramic	AD
C8220	9DK001-42051	J 10p	50V Ceramic	AD
C8221	9DK001-42051	J 10p	50V Ceramic	AD
C8222	9DK001-40023	J 10	16V Electrolytic	AG
C8223	9DK001-42052	J 22p	50V Ceramic	AC
C8227	9DK001-42041	J 100p	50V Ceramic	AC
C8228	9DK001-42002	J 47p	50V Ceramic	AA

RESISTORS

RA8001	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8002	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8003	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8004	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8005	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8006	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8007	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8008	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8009	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8010	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8011	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8012	9DK001-51005	J 120	1/16W Resistor Array	AE
RA8013	9DK001-51015	J 330	1/16W Resistor Array	AF
RA8014	9DK001-51015	J 330	1/16W Resistor Array	AF
RA8015	9DK001-51015	J 330	1/16W Resistor Array	AF

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PC I/F UNIT (Continued)

RA8016	9DK001-51015	J 330 1/16W Resistor Array	AF
RA8017	9DK001-51015	J 330 1/16W Resistor Array	AF
RA8018	9DK001-51015	J 330 1/16W Resistor Array	AF
RA8025	9DK001-51015	J 330 1/16W Resistor Array	AF
RA8026	9DK001-51015	J 330 1/16W Resistor Array	AF
RA8027	9DK001-51015	J 330 1/16W Resistor Array	AF
RA8028	9DK001-51015	J 330 1/16W Resistor Array	AF
RA8029	9DK001-51015	J 330 1/16W Resistor Array	AF
RA8030	9DK001-51015	J 330 1/16W Resistor Array	AF
RA8031	9DK001-51016	J 560 1/16W Resistor Array	AF
RA8032	9DK001-51016	J 560 1/16W Resistor Array	AF
RA8033	9DK001-51016	J 560 1/16W Resistor Array	AF
RA8034	9DK001-51016	J 560 1/16W Resistor Array	AF
RA8035	9DK001-51016	J 560 1/16W Resistor Array	AF
RA8036	9DK001-51016	J 560 1/16W Resistor Array	AF
RA8040	9DK001-51013	J 240 1/16W Resistor Array	AD
RA8041	9DK001-51013	J 240 1/16W Resistor Array	AD
RA8042	9DK001-51013	J 240 1/16W Resistor Array	AD
RA8043	9DK001-51013	J 240 1/16W Resistor Array	AD
RA8044	9DK001-51013	J 240 1/16W Resistor Array	AD
RA8045	9DK001-51013	J 240 1/16W Resistor Array	AD
RA8046	9DK001-51014	J Resistor Array	AE
RA8047	9DK001-51014	J Resistor Array	AE
RA8048	9DK001-51014	J Resistor Array	AE
RA8049	9DK001-51014	J Resistor Array	AE
RA8050	9DK001-51014	J Resistor Array	AE
RA8051	9DK001-51014	J Resistor Array	AE
R8001	9DK001-50004	J 100 1/10W	AA
R8002	9DK001-50004	J 100 1/10W	AA
R8003	9DK001-50004	J 100 1/10W	AA
R8004	9DK001-50004	J 100 1/10W	AA
R8005	9DK001-50004	J 100 1/10W	AA
R8006	9DK001-50004	J 100 1/10W	AA
R8007	9DK001-50004	J 100 1/10W	AA
R8008	9DK001-50004	J 100 1/10W	AA
R8009	9DK001-50004	J 100 1/10W	AA
R8010	9DK001-50012	J 10k 1/10W	AA
R8011	9DK001-50012	J 10k 1/10W	AA
R8012	9DK001-50012	J 10k 1/10W	AA
R8013	9DK001-50012	J 10k 1/10W	AA
R8014	9DK001-50012	J 10k 1/10W	AA
R8015	9DK001-50012	J 10k 1/10W	AA
R8016	9DK001-50012	J 10k 1/10W	AA
R8017	9DK001-50012	J 10k 1/10W	AA
R8018	9DK001-50012	J 10k 1/10W	AA
R8019	9DK001-50012	J 10k 1/10W	AA
R8020	9DK001-50012	J 10k 1/10W	AA
R8021	9DK001-50012	J 10k 1/10W	AA
R8022	9DK001-50012	J 10k 1/10W	AA
R8023	9DK001-50012	J 10k 1/10W	AA
R8024	9DK001-50012	J 10k 1/10W	AA
R8025	9DK001-50012	J 10k 1/10W	AA
R8026	9DK001-50012	J 10k 1/10W	AA

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R8027	9DK001-50012	J 10k 1/10W	AA
R8028	9DK001-50012	J 10k 1/10W	AA
R8029	9DK001-50012	J 10k 1/10W	AA
R8030	9DK001-50012	J 10k 1/10W	AA
R8032	9DK001-50050	J 47k 1/10W	AC
R8033	9DK001-50013	J 22k 1/10W	AA
R8034	9DK001-50011	J 5.6k 1/10W	AA
R8035	9DK001-50011	J 5.6k 1/10W	AA
R8036	9DK001-50011	J 5.6k 1/10W	AA
R8037	9DK001-50011	J 5.6k 1/10W	AA
R8038	9DK001-50012	J 10k 1/10W	AA
R8039	9DK001-50012	J 10k 1/10W	AA
R8040	9DK001-50012	J 10k 1/10W	AA
R8041	9DK001-50012	J 10k 1/10W	AA
R8042	9DK001-50012	J 10k 1/10W	AA
R8043	9DK001-50012	J 10k 1/10W	AA
R8044	9DK001-50012	J 10k 1/10W	AA
R8045	9DK001-50012	J 10k 1/10W	AA
R8046	9DK001-50046	J 10 2W	AE
R8049	9DK001-50011	J 5.6k 1/10W	AA
R8050	9DK001-50011	J 5.6k 1/10W	AA
R8051	9DK001-50011	J 5.6k 1/10W	AA
R8052	9DK001-50011	J 5.6k 1/10W	AA
R8053	9DK001-50011	J 5.6k 1/10W	AA
R8054	9DK001-50011	J 5.6k 1/10W	AA
R8055	9DK001-50011	J 5.6k 1/10W	AA
R8056	9DK001-50004	J 100 1/10W	AA
R8057	9DK001-50004	J 100 1/10W	AA
R8058	9DK001-50004	J 100 1/10W	AA
R8059	9DK001-50004	J 100 1/10W	AA
R8060	9DK001-50004	J 100 1/10W	AA
R8061	9DK001-50004	J 100 1/10W	AA
R8062	9DK001-50014	J 75 1/4W	AA
R8063	9DK001-50014	J 75 1/4W	AA
R8064	9DK001-50014	J 75 1/4W	AA
R8065	9DK001-50011	J 5.6k 1/10W	AA
R8066	9DK001-50011	J 5.6k 1/10W	AA
R8067	9DK001-50011	J 5.6k 1/10W	AA
R8068	9DK001-50004	J 100 1/10W	AA
R8069	9DK001-50018	J 3.9k 1/10W	AA
R8070	9DK001-50008	J 2.2k 1/10W	AA
R8071	9DK001-50004	J 100 1/10W	AA
R8072	9DK001-50018	J 3.9k 1/10W	AA
R8073	9DK001-50008	J 2.2k 1/10W	AA
R8074	9DK001-50004	J 100 1/10W	AA
R8075	9DK001-50018	J 3.9k 1/10W	AA
R8076	9DK001-50008	J 2.2k 1/10W	AA
R8081	9DK001-50011	J 5.6k 1/10W	AA
R8083	9DK001-50013	J 22k 1/10W	AA
R8084	9DK001-50013	J 22k 1/10W	AA
R8085	9DK001-50008	J 2.2k 1/10W	AA
R8086	9DK001-50013	J 22k 1/10W	AA
R8087	9DK001-50013	J 22k 1/10W	AA
R8088	9DK001-50008	J 2.2k 1/10W	AA
R8089	9DK001-50013	J 22k 1/10W	AA
R8090	9DK001-50013	J 22k 1/10W	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
RPCi-0007CEZZ									
PC I/F UNIT (Continued)									
R8091	9DK001-50008	J	2.2k 1/10W	AA	R8150	9DK001-50029	J	330 1/10W	AB
R8092	9DK001-50020	J	120 1/10W	AA	R8151	9DK001-50059	J	2k 1/10W	AC
R8093	9DK001-50020	J	120 1/10W	AA	R8152	9DK001-50052	J	47 1/10W	AC
R8094	9DK001-50020	J	120 1/10W	AA	R8153	9DK001-50059	J	2k 1/10W	AC
R8095	9DK001-50008	J	2.2k 1/10W	AA	R8154	9DK001-50017	J	220 1/10W	AA
R8096	9DK001-50008	J	2.2k 1/10W	AA	R8155	9DK001-50021	J	0 1/10W	AB
R8097	9DK001-50008	J	2.2k 1/10W	AA	R8156	9DK001-50029	J	330 1/10W	AB
R8098	9DK001-50008	J	2.2k 1/10W	AA	R8157	9DK001-50029	J	330 1/10W	AB
R8099	9DK001-50008	J	2.2k 1/10W	AA	R8158	9DK001-50017	J	220 1/10W	AA
R8100	9DK001-50008	J	2.2k 1/10W	AA	R8159	9DK001-50017	J	220 1/10W	AA
R8104	9DK001-50014	J	75 1/4W	AA	R8160	9DK001-50017	J	220 1/10W	AA
R8105	9DK001-50014	J	75 1/4W	AA	R8161	9DK001-50048	J	3.3k 1/10W	AB
R8106	9DK001-50014	J	75 1/4W	AA	R8162	9DK001-50008	J	2.2k 1/10W	AA
R8107	9DK001-50021	J	0 1/10W	AB	R8163	9DK001-50006	J	560 1/10W	AA
R8108	9DK001-50021	J	0 1/10W	AB	R8165	9DK001-50012	J	10k 1/10W	AA
R8109	9DK001-50021	J	0 1/10W	AB	R8166	9DK001-81016	J	Inductor BLM21A121S	AG
R8110	9DK001-50021	J	0 1/10W	AB	R8167	9DK001-50017	J	220 1/10W	AA
R8111	9DK001-50021	J	0 1/10W	AB	R8168	9DK001-50008	J	2.2k 1/10W	AA
R8112	9DK001-50011	J	5.6k 1/10W	AA	R8169	9DK001-50008	J	2.2k 1/10W	AA
R8113	9DK001-50011	J	5.6k 1/10W	AA	R8170	9DK001-81016	J	Inductor BLM21A121S	AG
R8114	9DK001-50011	J	5.6k 1/10W	AA	R8171	9DK001-81016	J	Inductor BLM21A121S	AG
R8115	9DK001-50003	J	68 1/10W	AA	R8172	9DK001-50006	J	560 1/10W	AA
R8116	9DK001-50003	J	68 1/10W	AA	R8173	9DK001-50025	J	2.7k 1/10W	AB
R8117	9DK001-50003	J	68 1/10W	AA	R8174	9DK001-50034	J	6.8k 1/10W	AB
R8118	9DK001-50007	J	1k 1/10W	AA	R8175	9DK001-50010	J	4.7k 1/10W	AA
R8119	9DK001-50058	J	62k 1/10W	AC	R8176	9DK001-50031	J	470 1/10W	AB
R8120	See Controls				R8177	9DK001-50031	J	470 1/10W	AB
R8121	9DK001-50017	J	220 1/10W	AA	R8178	9DK001-50029	J	330 1/10W	AB
R8122	9DK001-50001	J	10 1/10W	AA	R8179	9DK001-50017	J	220 1/10W	AA
R8123	9DK001-50012	J	10k 1/10W	AA	R8180	9DK001-50017	J	220 1/10W	AA
R8124	9DK001-50016	J	82 1/10W	AA	R8181	9DK001-50017	J	220 1/10W	AA
R8125	9DK001-50012	J	10k 1/10W	AA	R8182	9DK001-50017	J	220 1/10W	AA
R8126	9DK001-50012	J	10k 1/10W	AA	R8183	9DK001-50017	J	220 1/10W	AA
R8127	See Controls				R8188	9DK001-50012	J	10k 1/10W	AA
R8128	9DK001-50007	J	1k 1/10W	AA	R8189	9DK001-50049	J	1.5k 1/10W	AB
R8129	9DK001-50033	J	1.2k 1/10W	AB	R8192	9DK001-50012	J	10k 1/10W	AA
R8130	9DK001-50006	J	560 1/10W	AA	R8193	9DK001-50014	J	75 1/4W	AA
R8131	9DK001-50007	J	1k 1/10W	AA	R8194	9DK001-50014	J	75 1/4W	AA
R8132	9DK001-50033	J	1.2k 1/10W	AB	R8195	9DK001-50014	J	75 1/4W	AA
R8133	9DK001-50006	J	560 1/10W	AA	R8196	9DK001-50060	J	3.43k1/10W	AD
R8134	9DK001-50001	J	10 1/10W	AA	R8197	9DK001-50014	J	75 1/4W	AA
R8135	See Controls				R8198	9DK001-50014	J	75 1/4W	AA
R8136	9DK001-50007	J	1k 1/10W	AA	R8199	9DK001-50014	J	75 1/4W	AA
R8137	9DK001-50033	J	1.2k 1/10W	AB	R8200	9DK001-50060	J	3.43k1/10W	AD
R8138	9DK001-50006	J	560 1/10W	AA	R8202	9DK001-50008	J	2.2k 1/10W	AA
R8139	9DK001-50004	J	100 1/10W	AA	R8204	9DK001-50008	J	2.2k 1/10W	AA
R8140	9DK001-50007	J	1k 1/10W	AA	R8206	9DK001-50008	J	2.2k 1/10W	AA
R8141	9DK001-50004	J	100 1/10W	AA	R8208	9DK001-50008	J	2.2k 1/10W	AA
R8142	9DK001-50007	J	1k 1/10W	AA	R8210	9DK001-50008	J	2.2k 1/10W	AA
R8143	9DK001-50004	J	100 1/10W	AA	R8212	9DK001-50008	J	2.2k 1/10W	AA
R8144	9DK001-50007	J	1k 1/10W	AA	R8223	9DK001-50021	J	0 1/10W	AB
R8147	9DK001-50021	J	0 1/10W	AB	R8224	9DK001-50021	J	0 1/10W	AB
R8149	9DK001-50020	J	120 1/10W	AA	R8226	9DK001-50012	J	10k 1/10W	AA
					R8302	9DK001-50021	J	0 1/10W	AB
					R8303	9DK001-50021	J	0 1/10W	AB
					R8304	9DK001-50021	J	0 1/10W	AB

Ref. No.	Part No.	★	Description	Code
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PC I/F UNIT (Continued)

R8305	9DK001-50021	J 0	1/10W	AB
R8306	9DK001-50021	J 0	1/10W	AB

MISCELLANEOUS PARTS

CN1	9DK001-60004	J	Connector 15-pin, PC-In	AS
CN2	9DK001-60004	J	Connector 15-pin, PC-Out	AS
CN8201	9DK001-60012	J	Connector 12-pin (PC)	AK
FB8001	9DK001-81016	J	Inductor BLM21A121S	AG
FB8003	9DK001-81015	J	Inductor BLM31B601S	AG
FB8004	9DK001-81015	J	Inductor BLM31B601S	AG
FB8029	9DK001-81015	J	Inductor BLM31B601S	AG
FB8030	9DK001-81015	J	Inductor BLM31B601S	AG
FB8032	9DK001-81015	J	Inductor BLM31B601S	AG
P8001	9DK001-84012	J	Pin Head 2-pin	AL
S8001	9DK001-70004	J	Slide Switch	AS
S8002	9DK001-70004	J	Slide Switch	AS
TP8001	9DK001-84010	J	Test Point	AE
TP8002	9DK001-84010	J	Test Point	AE
TP8003	9DK001-84010	J	Test Point	AE
TP8004	9DK001-84010	J	Test Point	AE
TP8005	9DK001-84010	J	Test Point	AE
TP8006	9DK001-84011	J	Test Point	AE
TP8007	9DK001-84011	J	Test Point	AE
TP8008	9DK001-84011	J	Test Point	AE
	9DK001-60014	J	Connector 5-pin (EV)	AK
	9DK001-60015	J	Connector 5-pin (CS)	AH
	9DK001-60016	J	Connector 10-pin (PA)	AL
	9DK001-60010	J	Connector 7-pin (PD)	AG

Ref. No.	Part No.	★	Description	Code
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CABINET AND MECHANICAL PARTS

1	CBDYF1062CEK1	J	Front Body Ass'y	BA
1-1	Not Available	-	Front Body	-
1-2	Not Used	-		-
1-3	HINDP4439CESA	J	Indication Plate, LED	AF
1-4	JBTN-1839CESA	J	Button, Power	AE
1-5	LHLDZ1816CEKB	J	Rib	AD
1-6	MSPRC0146CEFW	J	Spring, Power Button	AC
1-7	PGIDM0017CE00	J	Guide, Button	AB
1-8	LHLDZ1827CEKZ	J	Holder, x2	AD
1-9	Not Used	-		-
1-10	XEPSD40P12000	J	Screw, x2	AA
1-11	PSPAZ0149CEZZ	J	Spacer, x2	AB
1-12	LHLDZ1850CEKB	J	Rib	AD
2	CBDYR1046CEK1	J	Rear Body Ass'y	BN
			(For Europe, U.K., Australia and New Zealand only)	
2	CBDYR1043CEK1	J	Rear Body Ass'y	BA
			(Not for Europe, U.K., Australia and New Zealand)	
2-1	Not Available	-	Rear Body	-
2-2	HINDP4679CESB	J	Indication Plate, Jack	AG
2-3	HINDP4624CESB	J	Indication Plate, PC	AH
2-4	HINDP4627CESA	J	Indication Plate, Model	AK
2-5	PCOVZ1020CEKB	J	Cover	AD
2-6	HINDP4368CESB	J	Indication Plate, Power Sw.	AC
3	CBDYT1051CEK1	J	Top Body Ass'y	CA
			(For Europe, U.K., Australia and New Zealand only)	
3	CBDYT1043CEK2	J	Top Body Ass'y	BL
			(Not for Europe, U.K., Australia and New Zealand)	
3-1	Not Available	-	Top Body	-
3-2	GLEGG9053CESB	J	Leg, Top x4	AD
3-3	GLEGG9052CESB	J	Leg, Rear x2	AC
3-4	HBDGB3107CESA	J	Badge, "SHARP"	AL
3-5	HINDP4637CESE	J	Indication Plate, Caution	AD
3-6	LX-TZ3060CESE	J	Screw, x2	AD
3-7	LHLDZ1834CEZZ	J	Rib	AD
3-8	LHLDZ1845CEZZ	J	Rib	AD
3-9	PMLT-0149CE00	J	Spacer, x2	AB
3-10	PMLT-0158CEZZ	J	Spacer, x3	AB
3-11	Not Used	-		-
3-12	LHLDZ1767CEKZ	J	Boss, x7	AD
3-13	PMLT-0200CEZZ	J	Spacer	AE
4	CBDYU1060CEK1	J	Bottom Body Ass'y	CF
			(For Europe, U.K., Australia and New Zealand only)	
4	CBDYU1053CEK3	J	Bottom Body Ass'y	BS
			(Not for Europe, U.K., Australia and New Zealand)	
4-1	Not Available	-	Bottom Body	-
4-2	CCOVA1477CE08	J	Fan Cover Ass'y	AS
4-3	PFILD0027CEZZ	J	Filter	AF
4-4	PFILD0024CEZZ	J	Filter Cover	AF

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
CABINET AND MECHANICAL PARTS									
(Continued)									
4-5	GLEGP9083CESA	J	Leg, Left-Front	AM	6	PLNS-0068CESA	J	Projection Lens (Not for Europe, U.K., Australia and New Zealand)	CH
4-6	GLEGP9084CESA	J	Leg, Right-Front	AM	7	CCOVA1480CE08	J	Terminal Cover Ass'y	AR
4-7	GLEGP9085CESA	J	Leg, Left-Rear	AM	7-1	Not Available	—	Terminal Cover	—
4-8	GLEGP9086CESA	J	Leg, Right-Rear	AM	7-2	Not Available	—	Polystyrene Sack	—
4-9	XEPSD40P10000	J	Screw, x3	AA	8	CCOVA1604CEK2	J	Side Fan Cover Ass'y	BB
4-10	LANGF9453CEFW	J	Angle, Handle	AE	8-1	Not Available	—	Side Fan Cover	—
4-11	LANGK0471CEFW	J	Leg Angle-A, x2	AD	8-2	QCWN-3906CEZZ	J	Leaf Switch	AK
4-12	LANGK0472CEFW	J	Leg Angle-B, x2	AD	8-3	XEBSD26P08000	J	Screw, x1	AA
4-13	LANGS0097CEFW	J	Angle, Speaker Holder-A	AD	9	CCOVA1603CEK3	J	Lamp Cover Ass'y	AU
4-14	LANGS0098CEFW	J	Angle, Speaker Holder-B	AD	9-1	Not Available	—	Lamp Cover	—
4-15	LHLDL1002CEKB	J	Holder, Handle	AM	9-2	LX-UZ3021CESB	J	Screw, x1	AD
4-16	LHLDZ1777CEKZ	J	Holder	AE	9-3	XRESJ30-06000	J	E-Ring, x1	AA
4-17	LX-BZ3292CEFF	J	Screw, x8	AA	10	CCOVZ1041CEK1	J	Lamp Duct Ass'y	BP
4-18	QCWN-4340CEZZ	J	Connecting Wire, (SP)	AC	10-1	Not Available	—	Lamp Duct	—
4-19	QSW-Z0039CEZZ	J	Membrane Switch	BA	10-2	XEBSF40P16000	J	Screw, x4	AA
4-20	VSP0080P-H4WA	J	Speaker	AM	10-3	NFANR0017CE00	J	Fan	BC
4-21	QCWN-3907CEZZ	J	Connecting Wire, Leaf Sw.	AK	Δ 11	BQC-XV3400S/2	J	Lamp Unit (Lamp/Cage Module)	CG
4-22	XEBSD26P08000	J	Screw, x1	AA	Δ 11-1	CLMPF0034DE07	J	Lamp/Mirror Ass'y	CC
4-23	XTASF40P16000	J	Screw, x3	AA	11-2	LHLDZ1932CEKZ	J	Lamp Case, Top	AT
4-24	XTBSD40P30000	J	Screw, x4	AA	11-3	LHLDZ1933CEKZ	J	Lamp Case, Lower	AS
4-25	PSPAZ0146CEZZ	J	Spacer	AC	11-4	LX-BZ3270CEFN	J	Screw	AA
4-26	PSPAZ0147CEZZ	J	Spacer	AC	11-5	LX-NZ3108CEFN	J	Nut	AA
4-27	PMLT-0149CE00	J	Spacer, x2	AB	11-6	LX-WZ3102CEFN	J	Washer	AA
4-28	PMLT-0158CEZZ	J	Spacer	AB	11-7	MSPRB0022CEFW	J	Spring	AD
4-29	Not Used				11-8	QPLGN0156FJZZ	J	Plug	AN
4-30	PCOVU1015CE00	J	Light Shielding Cover, x11	AA	11-9	PRDAR1499CEFW	J	Heat Sink	AC
4-31	Not Used				12	LANGT2075CEFW	J	Angle, LCD R/B	AH
4-32	Not Used				13	LANGT2076CEFW	J	Angle, LCD G	AH
4-33	LANGK0487CEFW	J	Angle, Shift Cover	AD	14	Not Used			
4-34	LANGK0488CEFW	J	Angle, Shift Cover	AD	15	Not Used			
4-35	Not Used				16	PFILW0127CEZZ	J	Polarizer Input Filter, G	BD
4-36	Not Used				17	PFILW0126CEZZ	J	Polarizer Input Filter, R	BE
4-37	PSPAZ0148CEZZ	J	Spacer	AC	18	PFILW0129CEZZ	J	Polarizer Output Filter, R (For Europe, U.K., Australia and New Zealand only)	BF
4-38	XTTSD40P12000	J	Screw, x2	AA	18	PFILW0122CEZZ	J	Polarizer Output Filter, R (Not for Europe, U.K., Australia and New Zealand)	BB
5	CCHSK0026CE01	J	Optics Mech. Ass'y	CN	19	PFILW0130CEZZ	J	Polarizer Output Filter, G (For Europe, U.K., Australia and New Zealand only)	BF
5-1	Not Available	—	Optics Mech.	—	19	PFILW0123CEZZ	J	Polarizer Output Filter, G (Not for Europe, U.K., Australia and New Zealand)	BB
5-2	LCHSK0027CE00	J	Cover	BA	20	PFILW0131CEZZ	J	Polarizer Output Filter, B (For Europe, U.K., Australia and New Zealand only)	BF
5-3	CANGT2073CE01	J	Angle, R/B	AX	20	PFILW0124CEZZ	J	Polarizer Output Filter, B (Not for Europe, U.K., Australia and New Zealand)	BB
5-4	LANGT2074CEFW	J	Angle, G	AM	21	PFILW0128CEZZ	J	Polarizer Input Filter, B	BG
5-5	CCHSK0029CE01	J	Lens Shift Unit	BL					
5-6	PMiR-0107CEZZ	J	Mirror-1, R-Reflector	BC					
5-7	PMiR-0108CEZZ	J	Mirror-2, B-Reflector	BB					
5-8	PMiR-0109CEZZ	J	Mirror-3, Total Reflector	AN					
5-9	PMiR-0110CEZZ	J	Mirror-4, Total Reflector	AP					
5-10	PMiR-0111CEZZ	J	Mirror-5, B-Reflector	BC					
5-11	PMiR-0112CEZZ	J	Mirror-6, R/B-Reflector	BE					
5-12	PFILW0118CEZZ	J	UV/IR Cut-off Filter	BB					
5-13	LHLDZ1903CEZZ	J	Field Lens Frame, x3	AH					
5-14	PLNS-0069CEZZ	J	Field Lens	BC					
5-15	NFANR0060CE00	J	Fan	BA					
5-16	XBPSD40P35000	J	Screw, x4	AB					
6	PLNS-0085CESA	J	Projection Lens (For Europe, U.K., Australia and New Zealand only)	CN					

Ref. No.	Part No.	★	Description	Code
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CABINET AND MECHANICAL PARTS

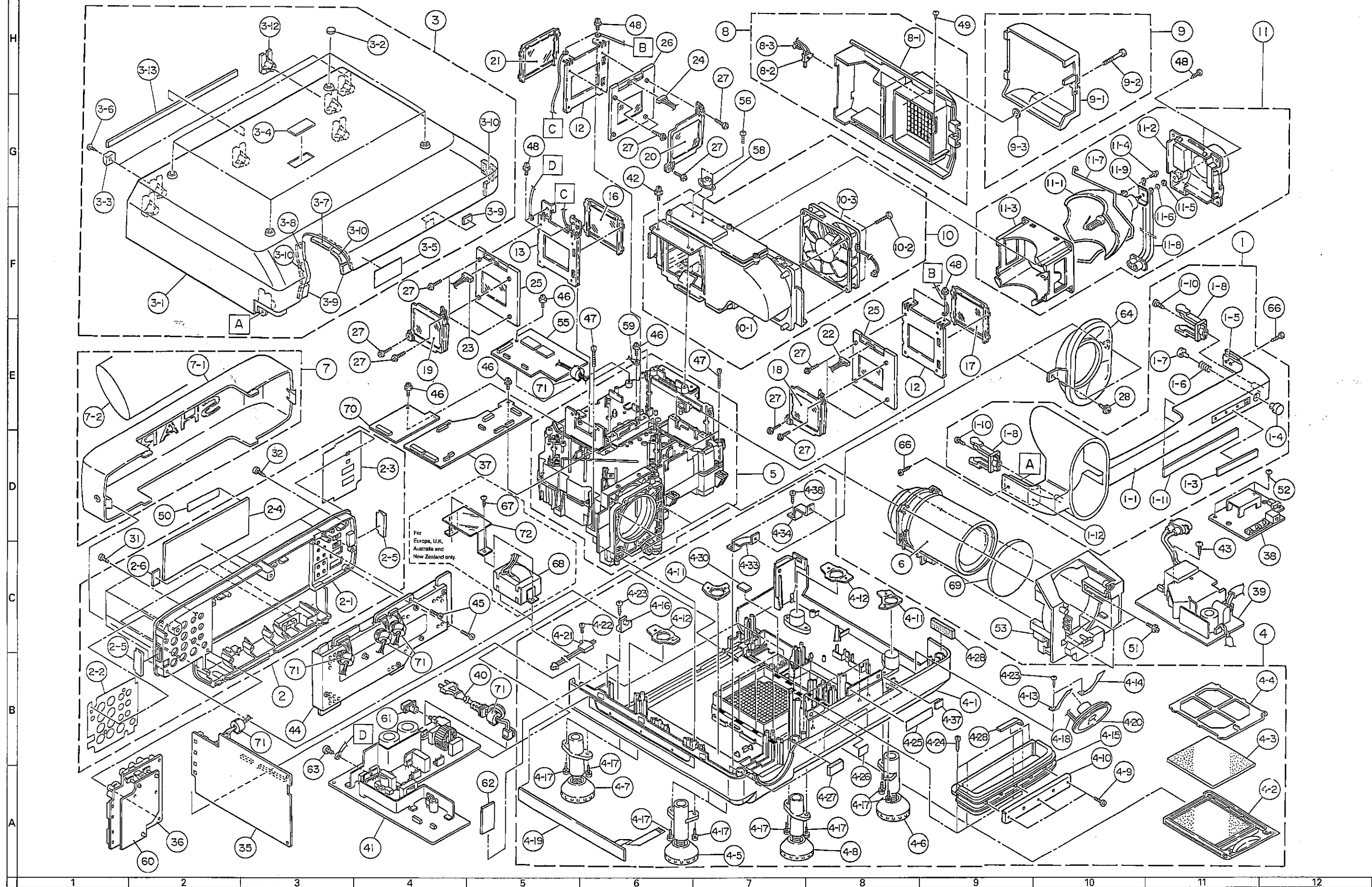
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22	QCNW-3852CEZZ	J	R-FCC	AQ
23	QCNW-3852CEZZ	J	G-FCC	AQ
24	QCNW-3852CEZZ	J	B-FCC	AQ
25	RLCDP0022CEZZ	J	LCD Module Unit, R/G (For Europe, U.K., Australia and New Zealand only)	DB
25	RLCDP0016CEZZ	J	LCD Module Unit, R/G (Not for Europe, U.K., Australia and New Zealand)	DB
26	RLCDP0023CEZZ	J	LCD Module Unit, B (For Europe, U.K., Australia and New Zealand only)	DB
26	RLCDP0017CEZZ	J	LCD Module Unit, B (Not for Europe, U.K., Australia and New Zealand)	DB
27	XHPSF30P14WS0	J	Screw, x12	AA
28	Not Used			
29	Not Used			
30	Not Used			
31	XEBSN30P10000	J	Screw, x3	AA
32	LX-TZ3060CESE	J	Screw, x6	
33	Not Used			
34	Not Used			
35	Not Available	—	Main Unit	—
36	Not Available	—	Input Unit	—
37	Not Available	—	Control Unit	—
38	Not Available	—	Audio Amp./LED Unit	—
39	Not Available	—	Ballast Unit	—
Δ 40	CACCV2015CE01	J	AC Cord (Not for U.K., Hong Kong, Australia and New Zealand)	AS
Δ 40	CACCB5013CE02	J	AC Cord (For U.K. and Hong Kong only)	AY
Δ 40	QACCL3017CESA	J	AC Cord (For Australia and New Zealand only)	AR
41	Not Available	—	Power Unit	—
42	XEPSD40P12000	J	Screw, x2	AA
43	XTASD40P12000	J	Screw, x1 Ballast Unit	AA
44	Not Available	—	PC I/F Unit	—
45	XEPSD40P10000	J	Screw, x2	AA
46	XEPSD30P06000	J	Screw, x2	AA
47	XTBSD40P30000	J	Screw, x7	AA
48	XBPSD40P08000	J	Screw, x6, x5, x2	AA
49	Not Used			
50	HINDP4628CEZZ	J	Label, Serial Number	AD
51	XEBSD40P18000	J	Screw, x3 Lens	AB
52	Not Used			
53	PCOVZ1032CEZZ	J	Lens Cover	AN
54	Not Used			
55	Not Available	—	VGA Amp. Unit	—
56	XEPSD30P08000	J	Screw, for Bimetal	AA
57	LX-BZ3220CEFD	J	Screw, for Thermistor	AA
Δ 58	CBIM-0001DE10	J	Bimetal	AX

Ref. No.	Part No.	★	Description	Code
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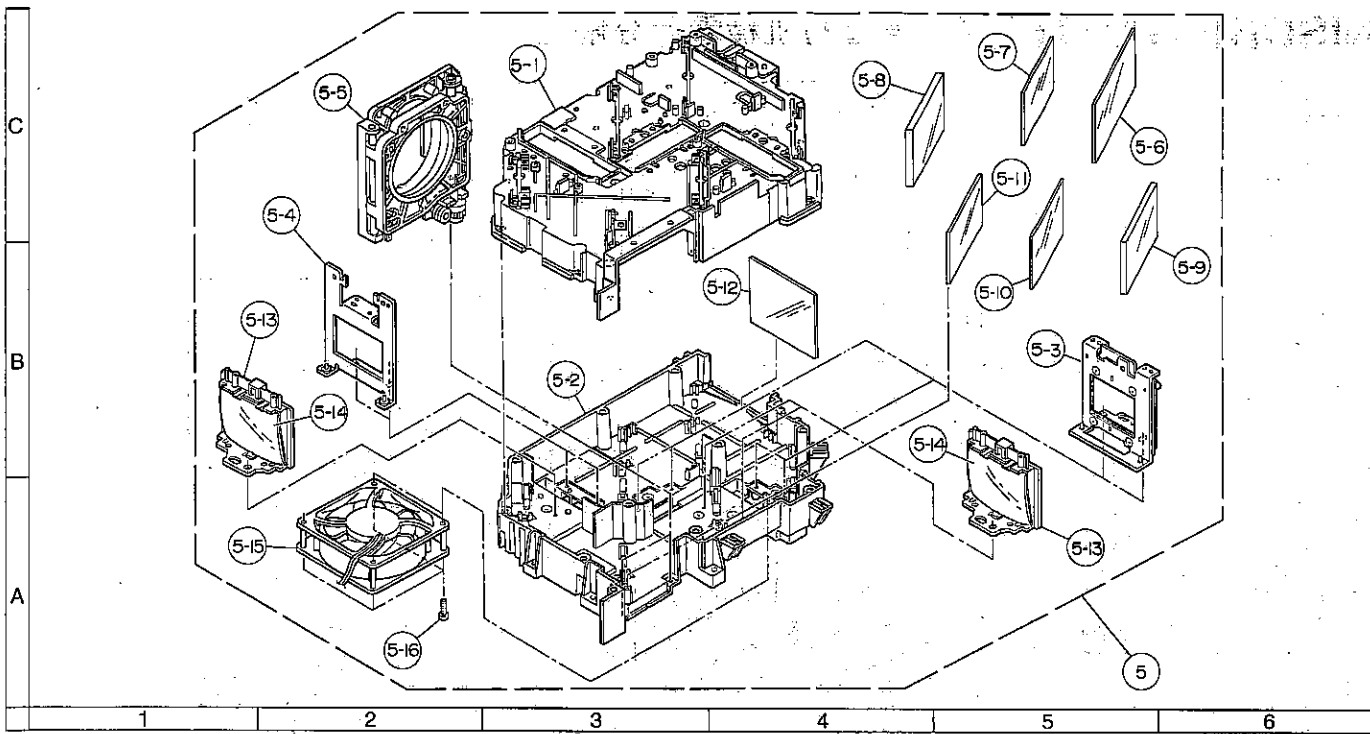
59	FAH-HZ0024CEZZ	J	Thermistor	AP
60	Not Available	—	Y/C Separator Unit	—
61	JKNBP1065CESB	J	Button, Power	AC
62	Not Available	—	Sharpness Control Unit	—
63	XBPSD30P08KSO	J	Screw	AA
64	CCOVA9142CE01	J	Lens Shift Cover Ass'y	AY
65	Not Used			
66	LX-TZ3060CESF	J	Screw, x2	AB
67	XEPSD40P10000	J	Screw, x2 (For Europe, U.K., Australia and New Zealand only)	AA
68	RTRNC0056CEZZ	J	Choke Trans. (For Europe, U.K., Australia and New Zealand only)	BC
68	QCNW-4411CEZZ	J	Connecting Cord (PC) for Power Unit (Not for Europe, U.K., Australia and New Zealand)	AD
69	PCAPH1042CESA	J	Lens Cap	AF
70	Not Available	—	Scan Converter Unit	—
71	RCORF0054CEZZ	J	Ferrite Core, x6 (For Europe, U.K., Australia and New Zealand only)	AM
72	PZETV0648CEZZ	J	Barrier (For Europe, U.K., Australia and New Zealand only)	AF

CABINET AND MECHANICAL PARTS / GEHÄUSE UND MECHANISCHE BAUTEILE 壳罩与机械零件分解图



PACKING OF THE SET / VERPACKEN DES GERÄTS

包装方法

Remote Control Unit /
Fernbedienung
遥控器VGA Signal Cable /
VGA-Signalkabel
VGA信号电缆Buffer Material /
Polstermaterial
防震泡沫塑料衬垫High-Mount Dust Cover /
Spezifischer Staubschutz
特殊防尘罩Terminal Cover Ass'y /
Klemmen Abdeckungseinheit
端盖组件Accessories /
Zubehör
附件Polystyrene Mat /
Polystyrolmatte
聚苯乙烯薄膜袋Packing Case /
Karton
包装用纸箱Use 16 staples to fix the
packing case. (Top and Bottom) /
Den Verpackungskarton mit 16
Haltklammern fixieren.
(Ober- und Unterseite)
包装用纸箱用16枚U形钉封闭
箱盖(上面和下面)。Serial Number Label /
Serien-Nr. -Etikett
产品出厂编号Number Card /
Nummernkarte
号码卡

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
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SUPPLIED ACCESSORIES

ACCESSORIES

CCOVA1533CE02	J	Cord Wrap Pegs	AM
GCOVA1531CEZZ	J	High-Mount Dust Cover	AT
HINDP4652CESB	J	Inverting Label	AE
PFIID0030CEZZ	J	Extra Air Filter	AG
QPLGA0010GEZZ	J	AC Plug Adaptor	AF
(Not for Europe, U.K., Hong Kong, Australia and New Zealand)			
QPLGJ0107GEZZ	J	RCA/BNC Adaptor, x2	AR
QPLGJ1505CEZZ	J	MAC/VGA Adaptor	AZ
QCNW-3843CEZZ	J	VGA Signal Cable	BG
RRMCG1219CESA	J	Remote Control Unit	BF
TINS-5791CEZZ	J	Operation Manual	BF

ACCESSORIES (Not Replacement Item)

TCADS3003CEZZ	-	SS List	—
(Not for Europe, U.K., Hong Kong, Australia and New Zealand)			
TCADZ3093CEZZ	-	Register Card	—
(For Europe only)			
TGANE0050TAZZ	-	Guarantee Card	—
(For Australia and New Zealand only)			
UBATU0025GEZZ	-	Dry Batteries	—

PACKING PARTS
(Not Replacement Item)

SPAKC4890CEZZ	-	Packing Case	—
SPAKP0692CEZZ	-	Polystyrene Mat	—
SPAKX2708CEZZ	-	Buffer Material	—

SERVICE PARTS

QCNW-3936CEZZ	J	Extension Cable	BB
22-pin (CA)—(CA)			
QCNW-3937CEZZ	J	Extension Cable	AS
5-pin (TD)—(TD)			
QCNW-3938CEZZ	J	Extension Cable	AX
10-pin (TC)—(TC)			
QCNW-3939CEZZ	J	Extension Cable	AY
12-pin (TA)—(TA)			
QCNW-3940CEZZ	J	Extension Cable	AW
10-pin (TB)—(TB)			
QCNW-4277CEZZ	J	Extension Cable	BE
26-pin (MA)—(MA)			
QCNW-4278CEZZ	J	Extension Cable	BG
30-pin (MB)—(MB)			
QSW-Z0039CEZZ	J	Membrane Switch	BA
9EQ-HENSDCE01	J	Off set Driver	BV
(Focus Adjustment Jig)			

[illegible]

SHARP

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